2004 ROOM AIR-CONDITIONING TECHNICAL HANDBOOK

MITSUBISHI
HEAVY INDUSTRIES, LTD.

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∗Models with “-4” have the “HEAVY DUTY” logo added on the front lower rightside.

TECHNICAL MANUAL

MODELS SRK10CDV-1 SRK10CDV-4 SRK13CDV-1 SRK13CDV-4

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1 GENERAL INFORMATION

1.1 Specific features

The “Mitsubishi Daiya” room air-conditioner: SRK series are of split and wall mounted type and the unit consists of indoor unit and outdoor unit with refrigerant precharged in factory. The indoor unit is composed of room air cooling equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(1) Remote control flap

The flap can be automatically controlled by operating wireless remote controller.

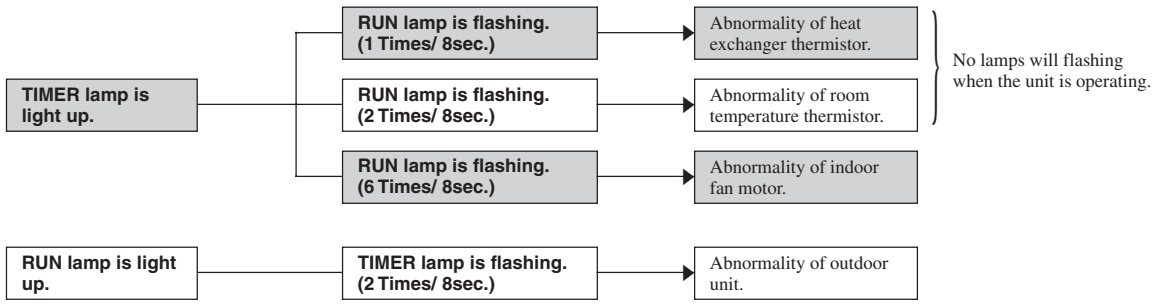
- Air scroll: Flap operation is automatically control.
- Swing: This will swing the flap up and down.
- Memory flap: Once the flap position is set, the unit memorizes the position and continues to operate at the same position from the next time.

(2) Automatic Operation

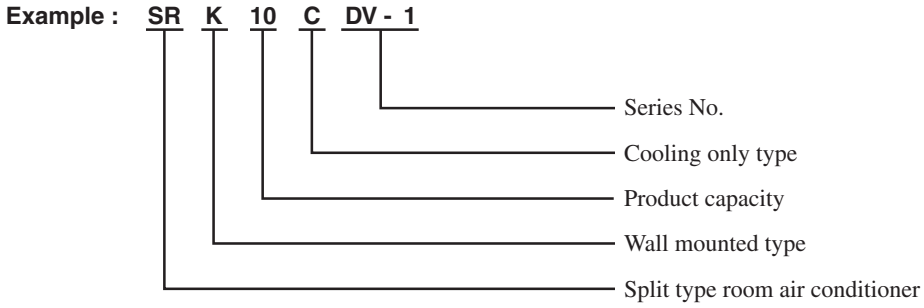
When the remote control switch is set on “auto(⧋)”, it will either automatically decide operation mode such as cooling and thermal dry, or operate in the operation mode before it has been turned to automatic control.

(3) Self diagnosis function

- We are constantly trying to do better service to our customers by installing such judges that show abnormality of operation as follows.



1.2 How to read the model name



2 SELECTION DATA

2.1 Specifications

Model SRK10CDV-1, -4 (Indoor unit)
SRC10CDV-1, -4 (Outdoor unit)

Item			Model	SRK10CDV-1, -4	SRC10CDV-1, -4
Cooling capacity(1)			W	2638	
Power source				1 Phase, 220V, 50Hz	
Operation data(1)	Cooling input		kW	0.803	
	Running current (Cooling)		A	4.2	
	Inrush current		A	18.1	
	COP (In cooling)			3.29	
	Noise level(4)		dB (A)	39	46
Exterior dimensions Height × Width × Depth			mm	250 × 815 × 247	540 × 720 × 290
Color				Cool white	Stucco white
Net weight			kg	9.0	32
Refrigerant equipment Compressor types & Q'ty				–	RMC201A002
	Motor		kW	–	0.75
	Starting method			–	Line starting
Heat exchanger				Louver fins & tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 0.75 (Pre-Charged up to the piping length of 7.5m)	
Refrigerant oil			ℓ	0.35 (ATMOS M60 or SUNISO 4GDID)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
	Motor		W	14	15
Air flow (at High)			CMM	8.5	30.0
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	–
Safety equipment				Frost protection, Fan motor error protection	Compressor overheat protection
Refrigerant piping	O.D		mm (in)	Liquid line: ø6.35 (1/4") Gas line: ø9.52 (3/8")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				2.5 m (3 cores with Earth)	
Connection wiring		Size × Core number		1.5 mm² × 3 cores (Including earth cable)	
		Connecting method		Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220 V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 7.5 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is less than 10 m, add 10 g refrigerant per meter and when it is 10 to 15 m, add 30 g refrigerant per meter.

(4) Expressed in sound pressure level.

Model SRK13CDV-1 (Indoor unit)
SRC13CDV-1 (Outdoor unit)

Item			Model	SRK13CDV-1	SRC13CDV-1
Cooling capacity(1)			W	3500	
Power source				1 Phase, 220V, 50Hz	
Operation data(1)	Cooling input		kW	1.16	
	Running current (Cooling)		A	6.1	
	Inrush current		A	33.2	
	COP (In cooling)			3.28	
	Noise level(4)		dB (A)	41	49
Exterior dimensions Height × Width × Depth			mm	250 × 815 × 247	640 × 850 × 290
Color				Cool white	Stucco white
Net weight			kg	9.0	40
Refrigerant equipment Compressor types & Q'ty				–	RMC201A001
	Motor		kW	–	1.3
	Starting method			–	Line starting
Heat exchanger				Louver fins & tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 1.2 (Pre-Charged up to the piping length of 7.5m)	
Refrigerant oil			ℓ	0.48 (SUNISO 4GSD)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
	Motor		W	14	35
Air flow (at High)			CMM	9.0	39.5
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	–
Safety equipment				Frost protection, Fan motor error protection	Internal thermostat (for compressor)
Refrigerant piping	O.D		mm (in)	Liquid line: ø6.35 (1/4") Gas line: ø12.7 (1/2")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number			1.5 mm² × 3 cores (Including earth cable)	
	Connecting method			Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220 V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 7.5 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is less than 10 m, add 10 g refrigerant per meter and when it is 10 to 15 m, add 30 g refrigerant per meter.

(4) Expressed in sound pressure level.

Model SRK13CDV-4 (Indoor unit)
SRC13CDV-4 (Outdoor unit)

Item			Model	SRK13CDV-4	SRC13CDV-4
Cooling capacity(1)			W	3810	
Power source				1 Phase, 220V, 50Hz	
Operation data(1)	Cooling input		kW	1.16	
	Running current (Cooling)		A	6.1	
	Inrush current		A	33.2	
	COP (In cooling)			3.28	
	Noise level(4)		dB (A)	41	49
Exterior dimensions Height × Width × Depth			mm	250 × 815 × 247	640 × 850 × 290
Color				Cool white	Stucco white
Net weight			kg	9.0	40
Refrigerant equipment Compressor types & Q'ty				–	RMC201A001
	Motor		kW	–	1.3
	Starting method			–	Line starting
Heat exchanger				Louver fins & tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 1.2 (Pre-Charged up to the piping length of 7.5m)	
Refrigerant oil			ℓ	0.48 (SUNISO 4GSD)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
	Motor		W	14	35
Air flow (at High)			CMM	9.0	39.5
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	–
Safety equipment				Frost protection, Fan motor error protection	Internal thermostat (for compressor)
Refrigerant piping	O.D		mm (in)	Liquid line: ø6.35 (1/4") Gas line: ø12.7 (1/2")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number			1.5 mm² × 3 cores (Including earth cable)	
	Connecting method			Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220 V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 7.5 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is less than 10 m, add 10 g refrigerant per meter and when it is 10 to 15 m, add 30 g refrigerant per meter.

(4) Expressed in sound pressure level.

2.2 Range of usage & limitations

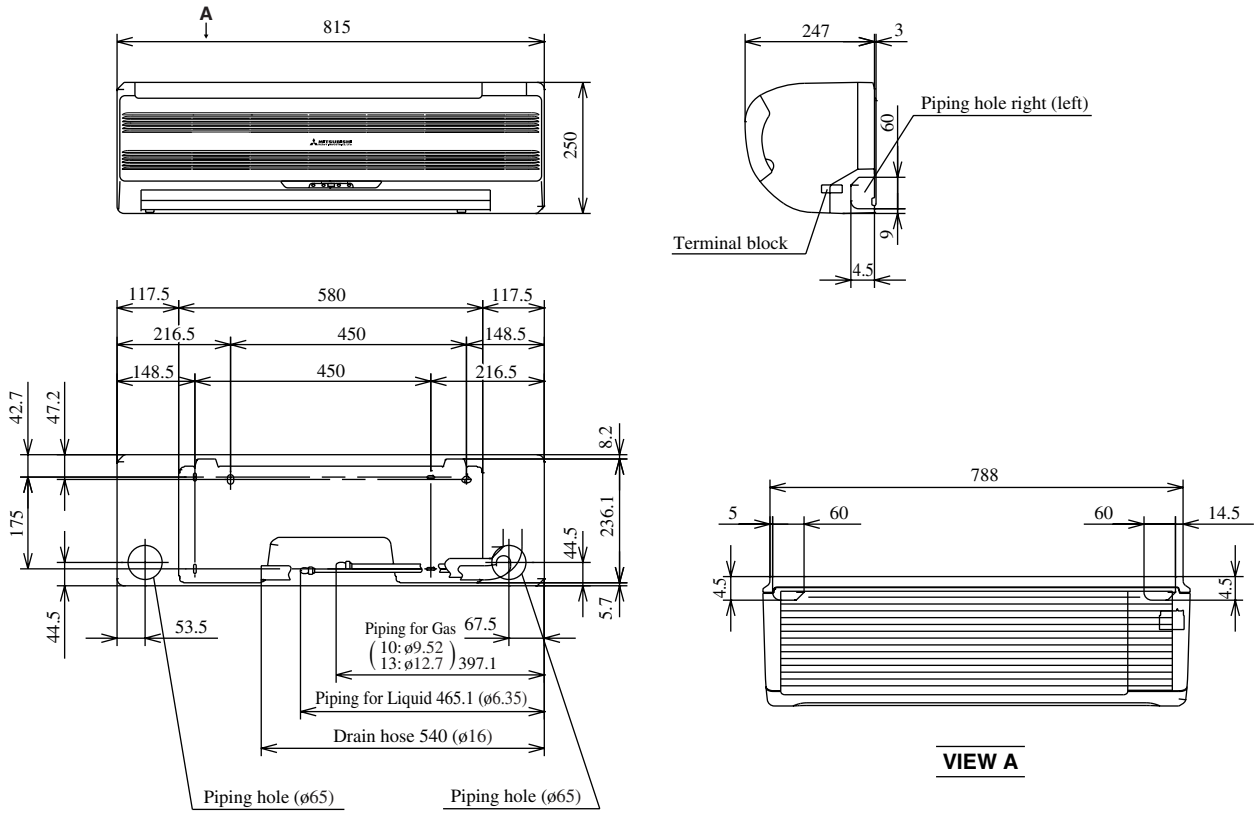
Item \ Models	All models
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart
Outdoor air temperature (Upper, lower limits)	
Refrigerant line (one way) length	Max. 15m
Vertical height difference between outdoor unit and indoor unit	Max. 5m (Outdoor unit is higher) Max. 5m (Outdoor unit is lower)
Power source voltage	Rating ± 10%
Voltage at starting	Min. 85% of rating
Frequency of ON-OFF cycle	Max. 10 times/h
ON and OFF interval	Max. 3 minutes

2.3 Exterior dimensions

(1) Indoor unit

Models SRK10CDV-1, 10CDV-4, 13CDV-1, 13CDV-4

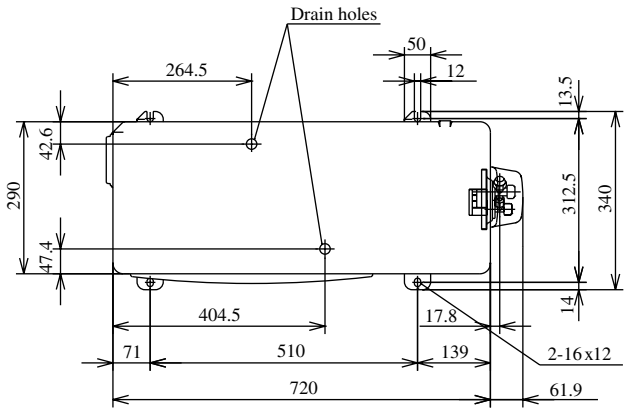
Unit: mm

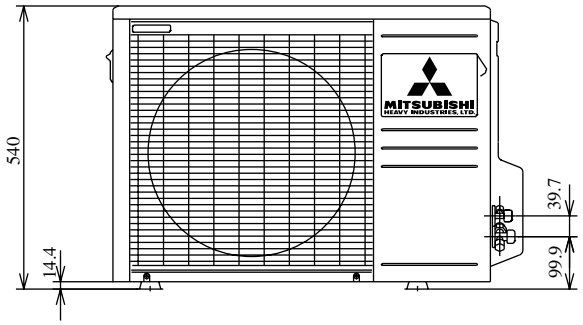


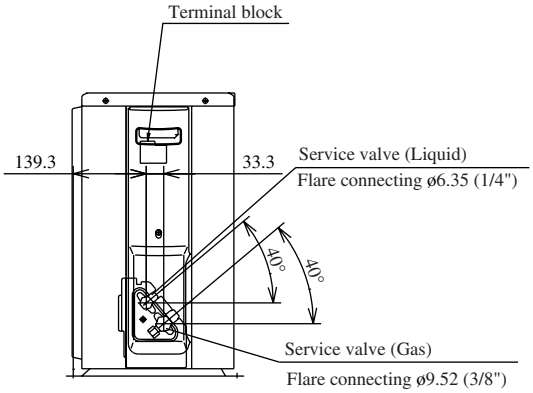
(2) Outdoor unit

Models SRC10CDV-1, 10CDV-4

Unit: mm

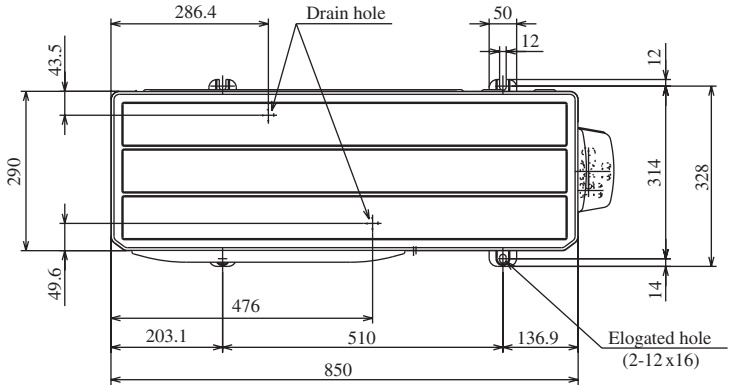


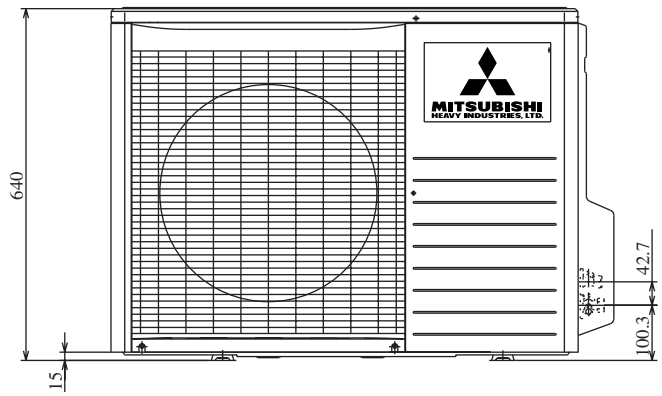


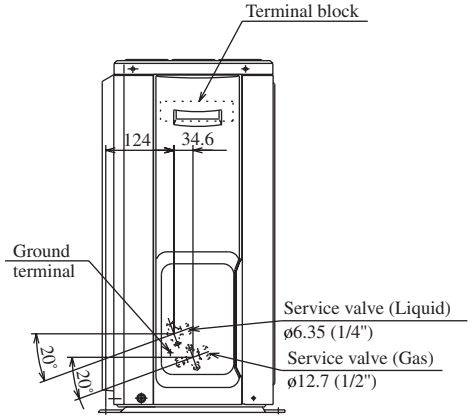


Model SRC13CDV-1, 13CDV-4

Unit: mm

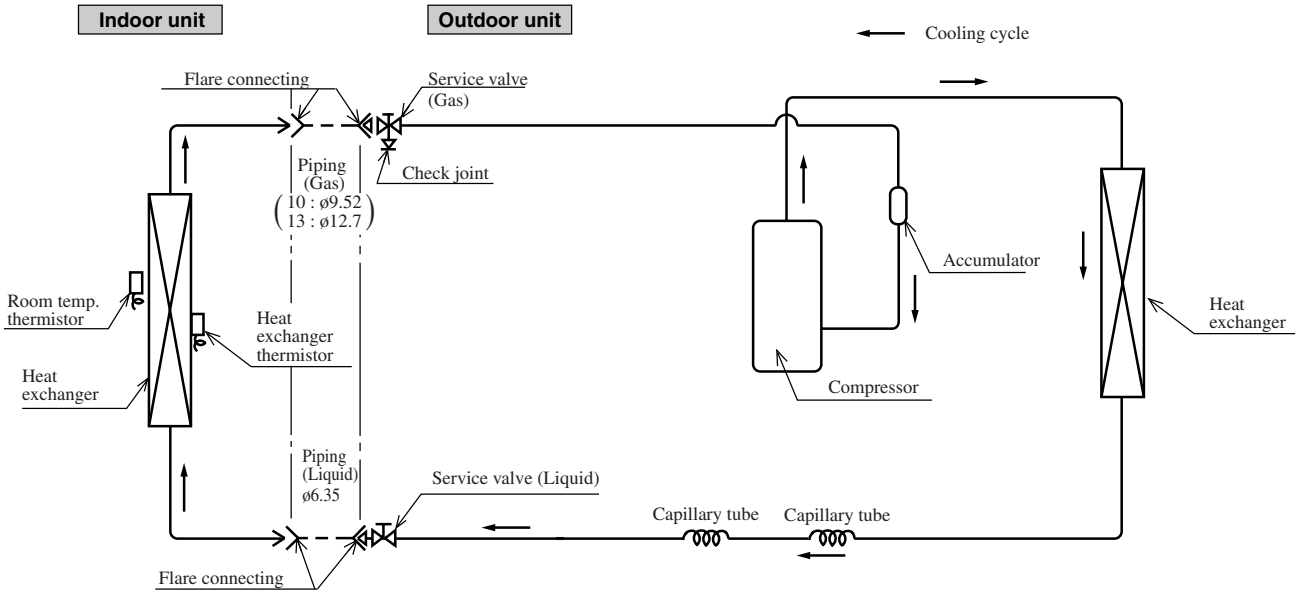






2.4 Piping system

Models SRK10CDV-1, 10CDV-4, 13CDV-1, 13CDV-4

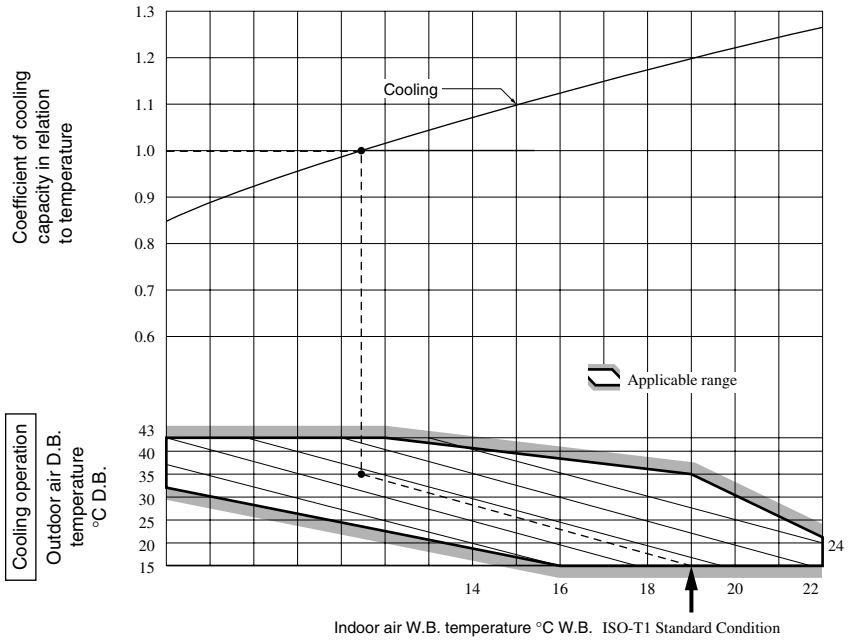


2.5 Selection chart

Correct the cooling capacity in accordance with the conditions as follows. The net cooling capacity can be obtained in the following way.

Net capacity = Capacity shown on specification × Correction factors as follows.

(1) Coefficient of cooling capacity in relation to temperatures



(2) Correction of cooling capacity in relation to one way length of refrigerant piping

It is necessary to correct the cooling capacity in relation to the one way piping length between the indoor and outdoor units.

Piping length [m]	7	10	15
Cooling	1.0	0.99	0.975

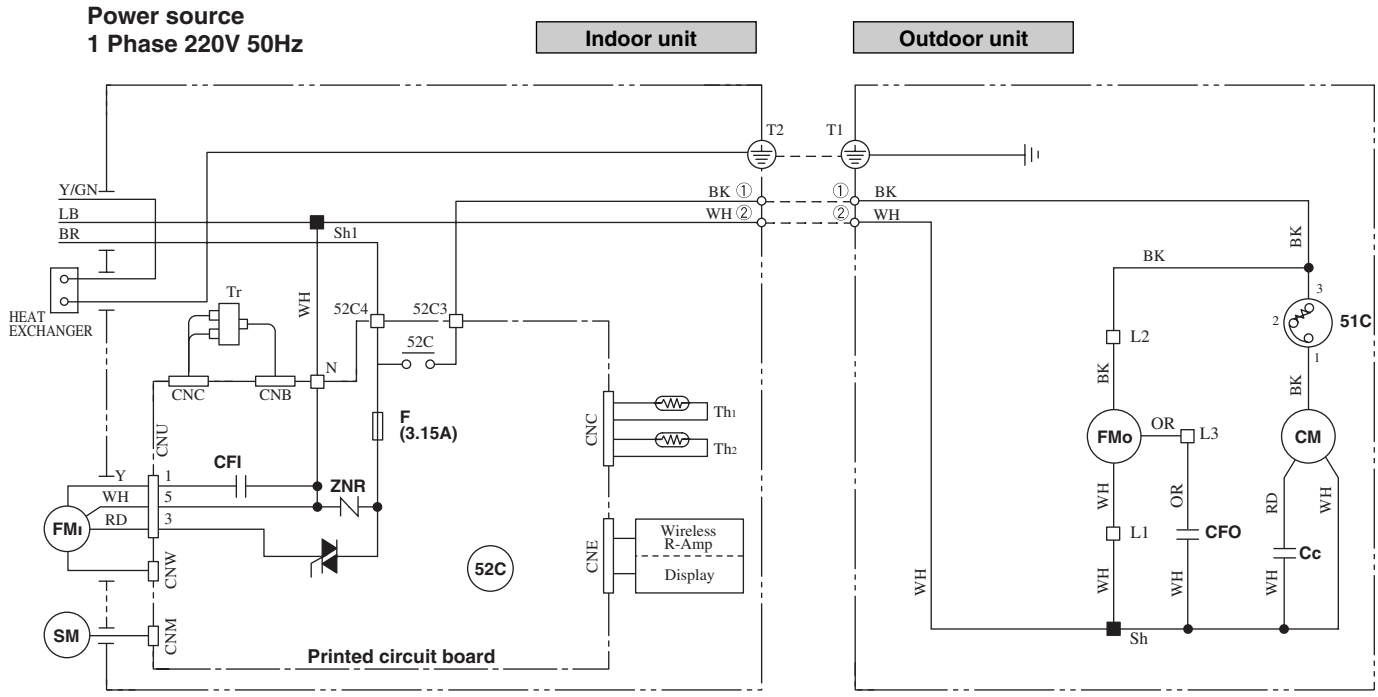
How to obtain the cooling capacity

Example : The net cooling capacity of the model SRK13CDV-4 with the piping length of 15m, indoor wet-bulb temperature at 19.0˚C and outdoor dry-bulb temperature 35˚C is Net cooling capacity = $\underset{\text{SRK13CDV-4}}{3810} \times \underset{\text{Length 15m}}{0.975} \times \underset{\text{Factor by air temperatures}}{1.0} =$ **3715 w**

3 ELECTRICAL DATA

3.1 Electrical wiring

Models SRK10CDV-1, 10CDV-4



Color symbol

BK	Black
BL	Blue
BR	Brown
LB	Light blue
Y	Yellow
RD	Red
OR	Orange
WH	White
Y/G	Yellow/Green

Meaning of marks

Symbol	Parts name	Symbol	Parts name
C_C	Capacitor for CM	**SM**	Flap motor
CF_I	Capacitor for FM_I	**$Th_{1,2}$**	Thermistor
CF_O	Capacitor for FM_O	**Tr**	Transformer
CM	Compressor motor	**ZNR**	Varistor
F	Fuse	**51C**	Motor protector for CM
FM_I	Fan motor (Indoor unit)	**52C**	Magnetic contactor for CM
FM_O	Fan motor (Outdoor unit)		

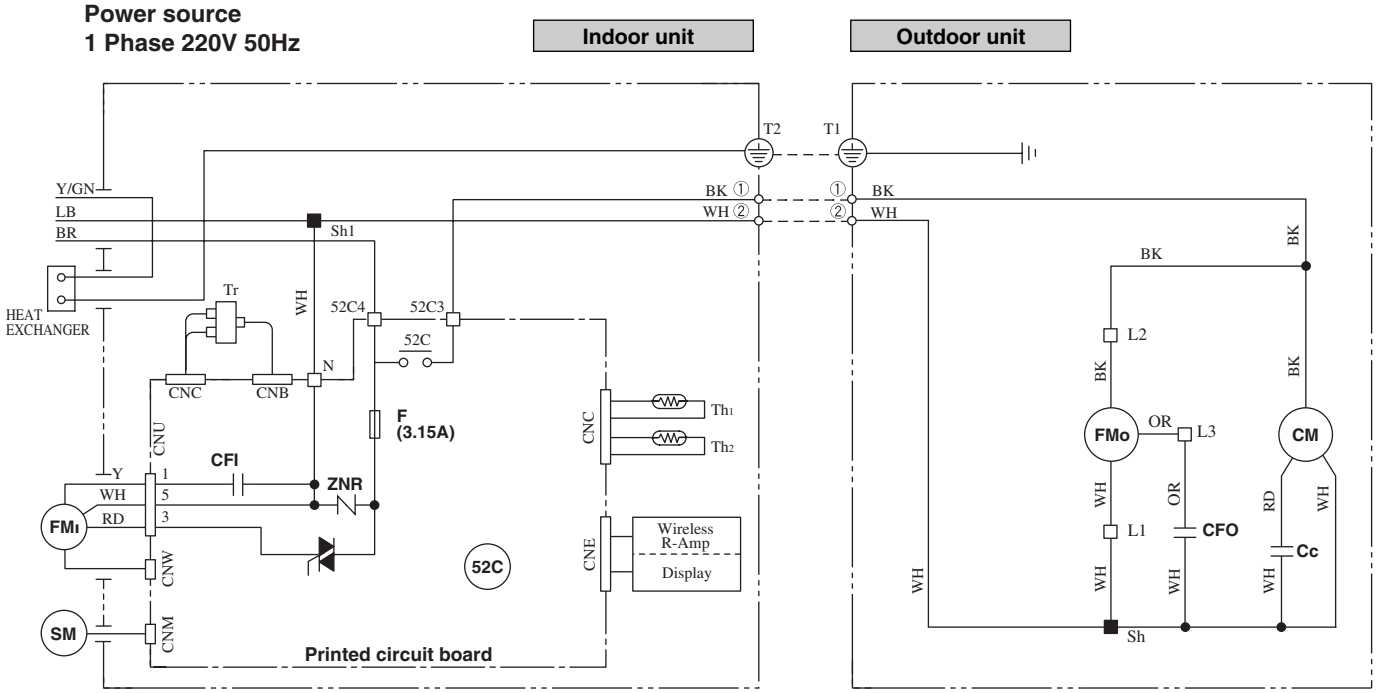
Table of relay operations

Relay symbol	Control part	Operation: Cooling
52C	**CM**	○

Notes (1) ○ : denotes magentized relay × : denotes demagnetized relay
(2) Th_1 is room temperature thermistor. Th_2 (the heat exchanger thermistor) is frost prevention thermistor.

Model SRK13CDV-1, 13CDV-4

Power source
1 Phase 220V 50Hz



Color symbol

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Meaning of marks

Symbol	Parts name	Symbol	Parts name
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CF_I	Capacitor for FM_I	$Th_{1,2}$	Thermistor
CF_O	Capacitor for FM_O	Tr	Transformer
CM	Compressor motor	ZNR	Varistor
F	Fuse	52C	Magnetic contactor for CM
FM_I	Fan motor (Indoor unit)		
FM_O	Fan motor (Outdoor unit)		

Table of relay operations

Relay symbol	Control part	Operation: Cooling
52C	CM	○

Notes (1) ○ : denotes magentized relay × : denotes demagnetized relay
(2) Th_1 is room temperature thermistor. Th_2 (the heat exchanger thermistor) is frost prevention thermistor.

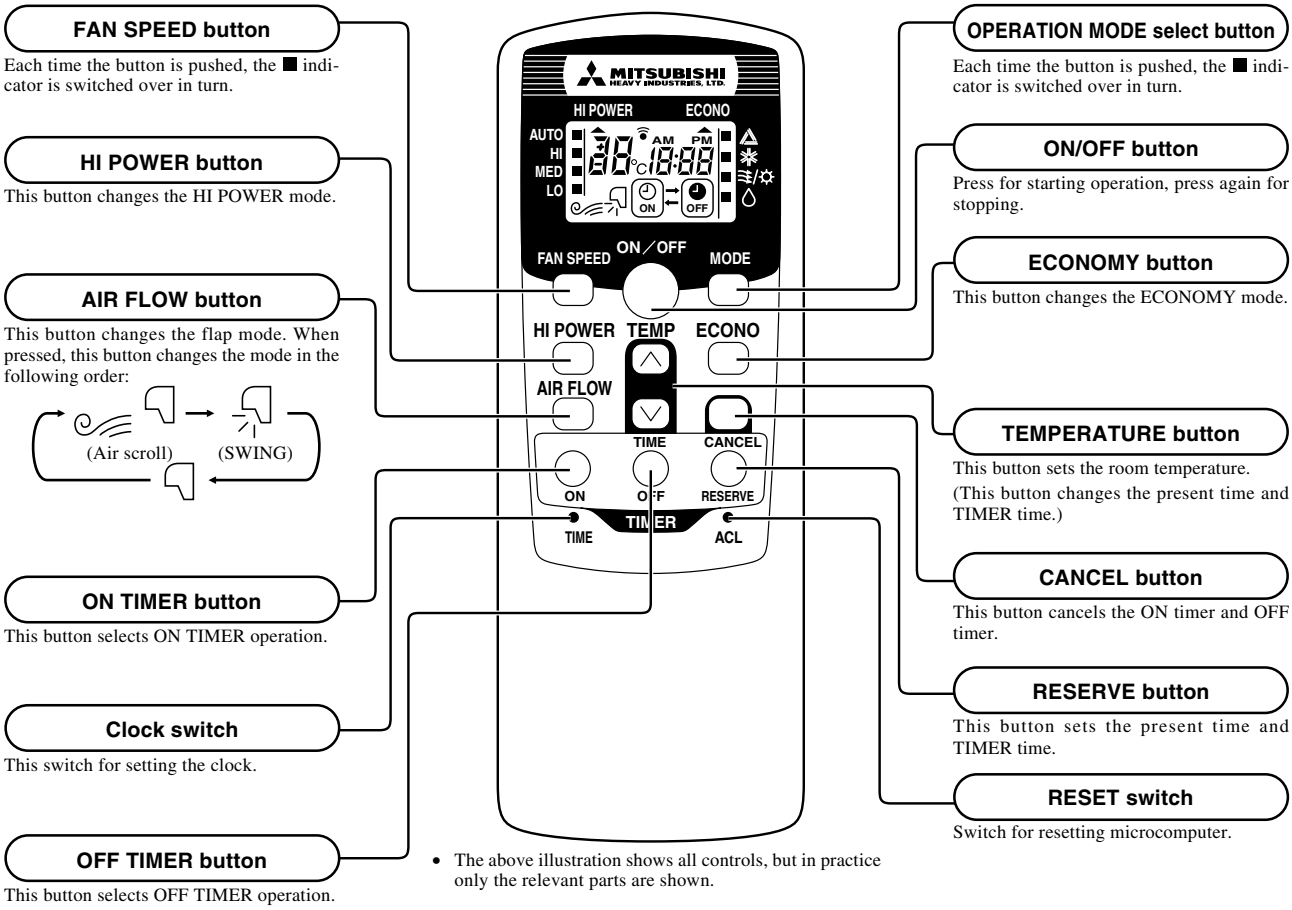
4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

(1) Operation control function by remote controller

Remote controller

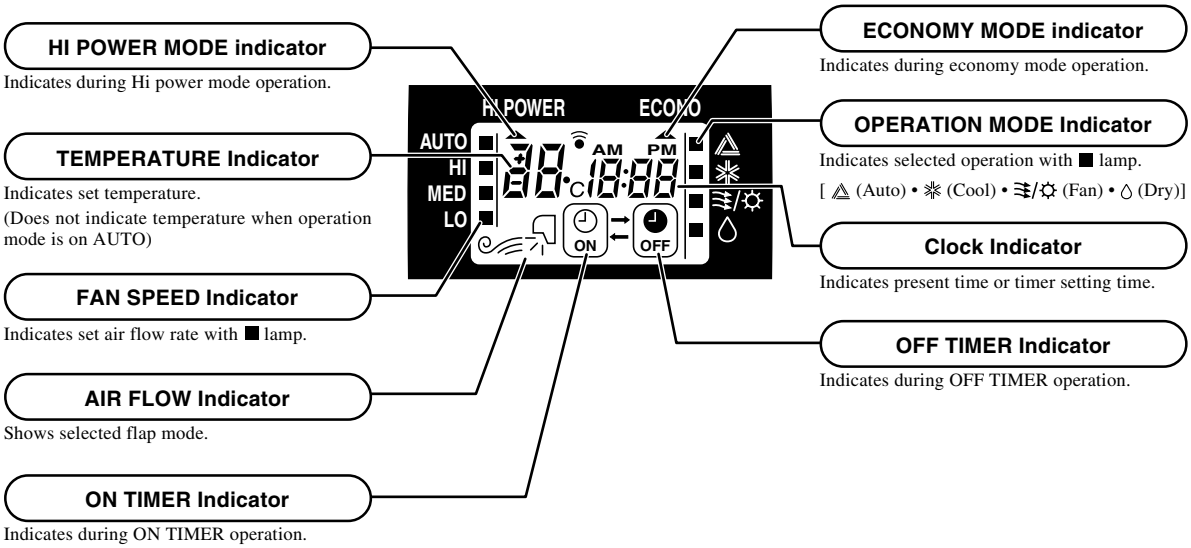
Models All models

◆ Operation section



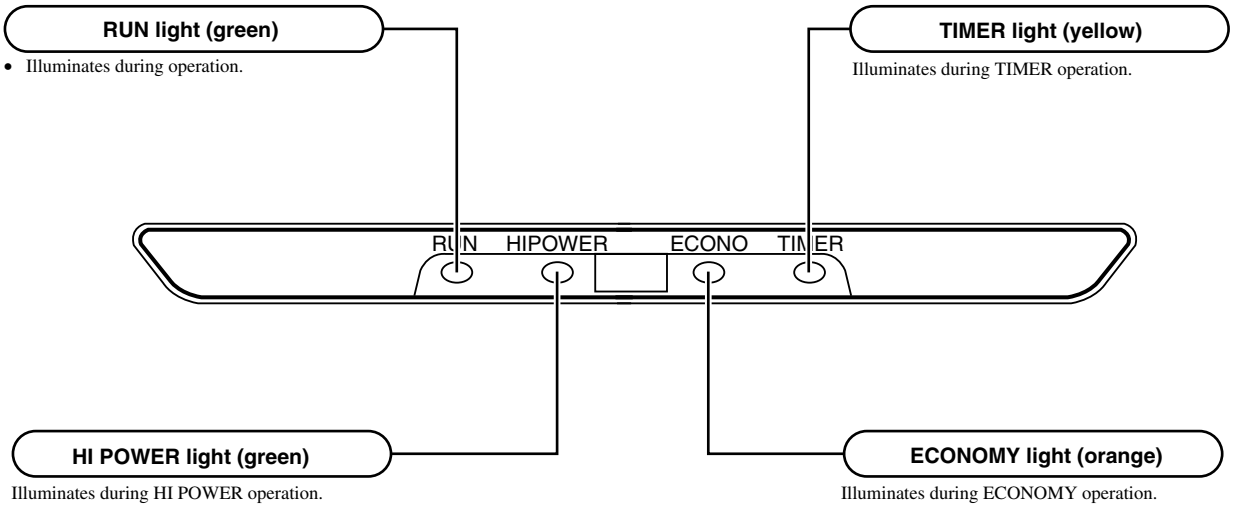
- The above illustration shows all controls, but in practice only the relevant parts are shown.

◆ Indication section



Unit indication section

Models All models



(2) Back-up switch

When the remote controller batteries become weak, or if the remote controller is lost or malfunctioning, this switch may be used to turn the unit on and off.

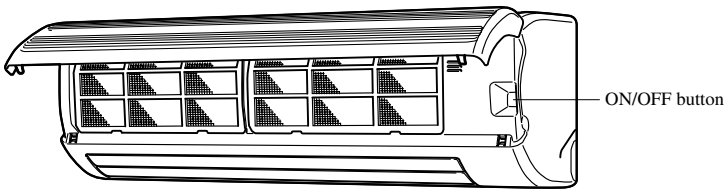
(a) Operation

Push the switch once to place the unit in the automatic mode. Push it once more to turn the unit off.

(b) Details of operation

The unit will go into the automatic mode in which it automatically determines, from room temperature (as detected by sensor), whether to go into the cooling or thermal dry modes.

Function / Operation mode	Room temperature setting	Fan speed	Flap	Timer switch
Cooling	About 25ºC	Auto	Auto	Continuous
Thermal dry	About 25ºC			



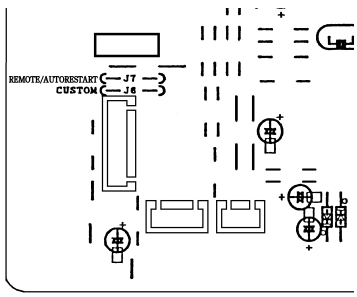
(3) Power blackout auto restart function

(a) Power blackout auto restart function is that records the operational status of the air-conditioner immediately prior to it being switched off by a power cut, and then automatically resumes operations at that point after the power has been restored.

(b) The following settings will be cancelled:

1) Timer settings

2) High-power operations



Notes (1) The power blackout auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.
(2) When power failure ocurrs, the timer setting is cancelled. Once power is resumed, reset the timer.
(3) If the jumper wire (J7) "REMOTE/AUTORESTART" is cut, auto restart is disabled. (See the diagram at right)

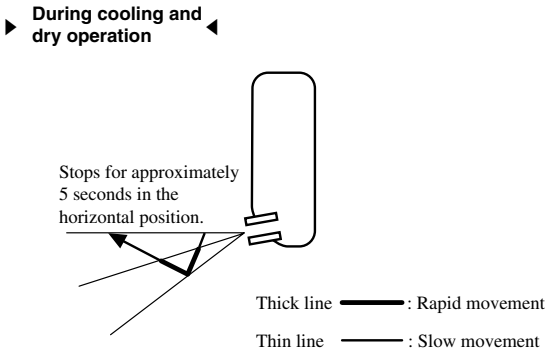
(4) Flap control

Control the flap by AIRFLOW button on the wireless remote controller.

(a) Air scroll

The flap will be automatically set to the angle of air flow best to operation.

1) Starting time of operation



2) When not operating

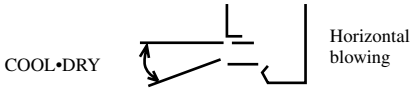
The flap returns to the position of air flow directly below, when operation has stopped.

(b) Memory flap

While the flap is operating if the AIRFLOW button is pushed once, it stops swinging at an angle.

As this angle is memorized in the microcomputer, the flap will be automatically set to the angle when next operation is started.

- Recommendable stopping angle of the flap



(c) Swing flap

Flap moves in upward and downward directions continuously.

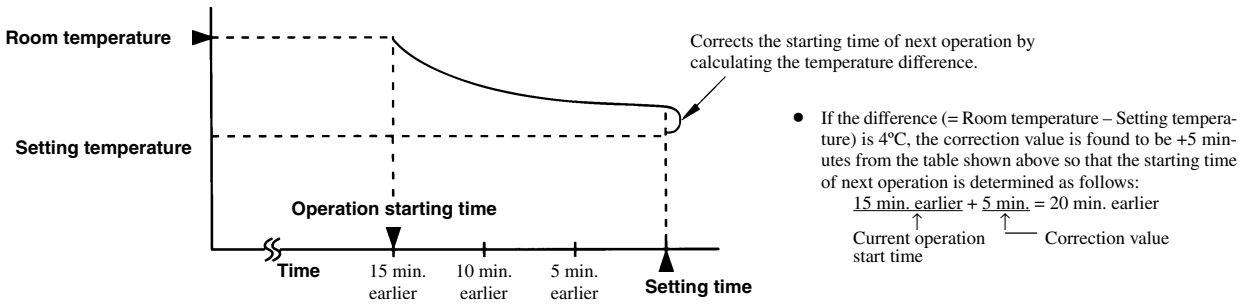
(5) Comfort timer setting

If the timer is set at ON when the operation select switch is set at the cooling, or the cooling in auto mode operation is selected, the comfort timer starts and determines the starting time of next operation based on the initial value of 15 minutes and the relationship between the room temperature at the setting time (temperature of room temperature thermistor) and the setting temperature. (Max. 60 minutes)

Operation mode	Operation start time correction value (Min.)		
At cooling	3 < Room temp. – Setting temp.	1 < Room temp. – Setting temp. ≦ 3	Room temp. – Setting temp. ≦ 1
	+5	No change	–5

Notes (1) At 5 minutes before the timer ON time, operation starts regardless of the temperature of the room temperature thermistor (Th1).
(2) This function does not actuate when the operation select switch is set at the dehumidifying as well as the dehumidifying in the auto mode. However, the operation of item (1) above is performed during the dehumidifying in the auto mode.
(3) During the pleasant reservation operation, both the operation lamp and timer lamp illuminate and the timer lamp goes off after expiration of the timer, ON setting time.

(Example) Cooling



- If the difference (= Room temperature – Setting temperature) is 4ºC, the correction value is found to be +5 minutes from the table shown above so that the starting time of next operation is determined as follows:
  15 min. earlier + 5 min. = 20 min. earlier
  ↑ Current operation start time
  ↑ Correction value

(6) Outline of cooling operation

(a) Operation of major fanctinal components

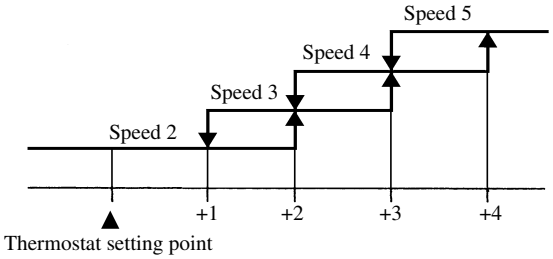
Item / Functional components	When the compressor command is OFF	When the compressor command is ON	When the compressor goes OFF due to an abnormal stop.
Indoor fan motor	ON	ON	OFF
Flaps	ON or OFF	ON or OFF	Stop position control
Display	Lights up	Lights up	Lights up or flashes
52C	OFF	ON	OFF
Outdoor fan motor	OFF	ON	OFF

(b) Fan speed switching

Fan speed switching / Flow control	AUTO	HIGH	MED	LOW
Air scroll	Auto fan control	Speed 5	Speed 3	Speed 2
Swing flap		Speed 5	Speed 3	Speed 2
Swing stop		Speed 5	Speed 3	Speed 2

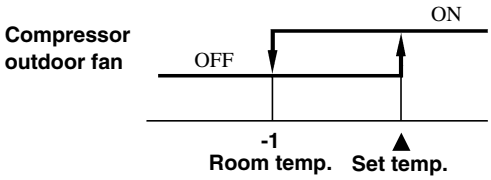
1) Auto fan control

The indoor fan is automatically controlled in accordance with the difference between the room temperature (detected by the room temperature thermistor) and the termostat setting as shown below.



(c) Thermostat operation

The compressor and outdoor fan and turned on and off as shown below according to the temperature setting.



(d) High Power operation ("HI POWER" button on the remote controller : ON)

The following operation is performed for 15 minutes without relation to the set temperature or fan speed setting.

Indoor unit fan	Speed 6 fixed
Outdoor unit fan	ON
Compressor	ON

Notes (1) Room temperature is not adjusted during the HI POWER operation.
(2) Protective functions will actuate with priority even during the HI POWER operation.

(e) ECONO Operation ("ECONO" button on the remote controller : ON)

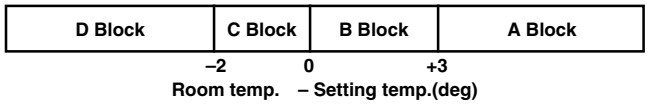
The set temperature changes as shown at right, and the indoor unit fan speed is set on speed 2.

Running time	Set temperature compensation
Running start ~ 1 hour	Set temperature +0.5
1~2 hours	Set temperature +1.0
2 hours ~	Set temperature +1.5

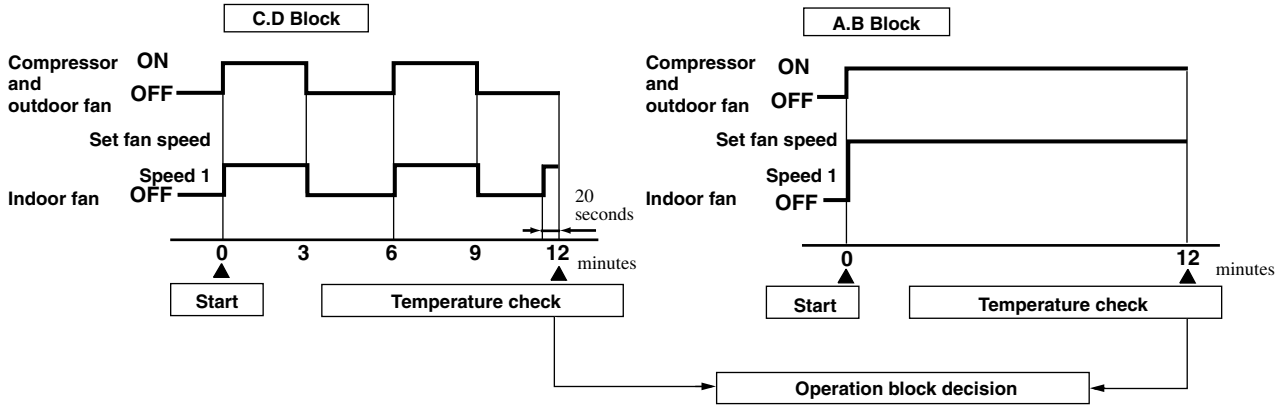
(7) Outline of dehumidifying operation

(a) Choose the appropriate operation block area by the difference between room temperature and thermostat setting temperature as shown below.

- **Operation block area**



(b) Start up operation

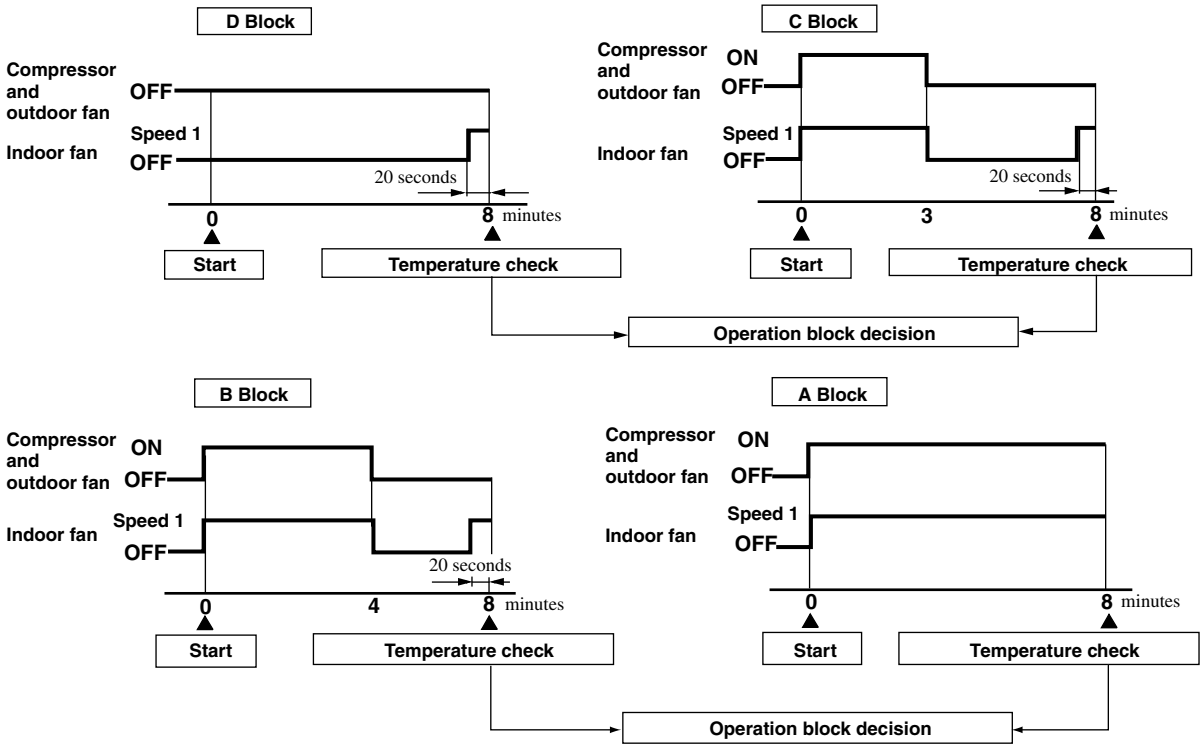


Note (1) Thermostat operation is performed in A, B Block. When compressor and indoor fan stop by thermostat operation within 12 minutes from start, temperature check is performed by operating indoor fan at speed 1 for 20 seconds before finishing 12 minutes and allowing decision of next operation block.

(c) DRY operation

After finishing start up operation described in (2) above, thermal dry operation is performed at 8 minutes intervals, according to the difference between room temperature and thermostat setting temperature as shown below.

Beside, 1 cycle of this operating time consists of 8 minutes, 7 cycle operation is performed then.



(d) ECONO Operation ("ECONO" button on the remote controlle : ON)

The set temperature changes as shown at right, and the indoor unit fan speed is set on speed 2.

Running time	Set temperature compensation
Running start ~ 1 hour	Set temperature +0.5
1~2 hours	Set temperature +1.0
2 hours ~	Set temperature +1.5

(8) Automatic operation

(a) Determination of operation mode

The blow operation of the indoor fan is carried out at the 1st speed for 20 seconds and the room temperature is checked to determine the operation mode automatically. (When the unit is operated by the turn-on timer, the blow operation is not carried out.)

	Room temperature<26ºC	26ºC≦Room temperature
Operation mode	Dry	Cooling

(b) Within 30 minutes after either auto or manual operation stops, if auto operation is started, or if you switch to auto operation during manual operation, the system runs in the previous operation mode.

(c) The temperature is checked 1 time in 30 minutes after the start of operation, and if the judgment differs from the previous operation mode, the operation mode changes.

(d) Setting temperature can be adjusted within the following range. There is the relationship as shown below between the signals of the wireless remote controller and the setting temperature.

		Signals of wireless remote controller (Display)												
		–6	**–5**	**–4**	**–3**	**–2**	**–1**	**±0**	**+1**	**+2**	**+3**	**+4**	**+5**	**+6**
Setting temperature	**Cooling**	19	20	21	22	23	24	25	26	27	28	29	30	31
	Dehumidifying	19	20	21	22	23	24	25	26	27	28	29	30	31

(9) Outline of fan operation

(a) Operation of major fanctional components

Fan speed switching / Functional components	High power	AUTO	HIGH	MED	LOW	ECONO
52C	OFF					
Indoor fan motor	Speed 6	Speed 5	Speed 5	Speed 3	Speed 2	Speed 1
Outdoor fan motor	OFF					
Flaps	ON or OFF					

(b) High Power operation (“HI POWER” button on the remote controller : ON)

The following operation is performed for 15 minutes without relation to the set fan speed.

Indoor unit fan	Speed 6 fixed
Outdoor unit fan	OFF
Compressor	OFF

Note (1) Protective functions will actuate with priority even during the HI POWER operation.

(10) Protective control function

(a) Dew condensation prevention control for cooling operation

This prevents dew condensation, in the indoor unit, from occurring.

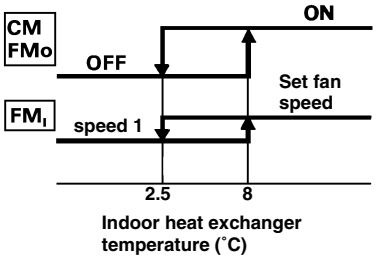
1) **Operating condition:** when 52C is kept ON for 30 min. after the unit starts operation.
2) **Operation content:** forces the indoor fan to change from Speed 1 to Speed 2.
3) **Resetting condition:** When 52C is off, or when dew condensation prevention control has been operating continuously for 30 minutes.

(b) Frost prevention for indoor heat exchanger [Preventing frost accumulation on the indoor heat exchanger]

During the Cooling or Dry operation in low room air temp. condition, evaporating temperature will decrease and consequently indoor heat exchanger sometimes gets clogged with frost (or ice).

In order to prevent this trouble, compressor is stopped by under mentioned condition by indoor heat exchanger sensor (Th_2) and timer (built into micro computer circuit) functions.

Also indoor fan is changed over to speed 1.



CM, FM_O stoppage condition

① Temperature of heat exchanger is 2.5˚C or lower.
② As least 3 minutes has passed since the compressor started.

CM, FM_O re-starting condition

① Temperature of heat exchanger is 8˚C or higher.
② As least 3 minutes has passed since the compressor stopped.

(c) Three-Minute Forced Operation

When the compressor begins operating the thermal operation is not effective for 3 minutes, so operation continues as is in the operation mode. (After 3 minutes has passed the thermal operation is effective.)

However, stopping the compressor via a stop signal or protection control has priority.

(d) Self diagnosis function

When something abnormal happens on the outdoor unit, indoor unit fan motor and each thermistor (heat exchanger, room temperature,) it will be indicated by flashing lamps.

1) **Abnormality of outdoor unit:** When the indoor heat exchanger temperature does not fall to 25ºC or below for 40 minutes after 5 minutes have elapsed since the compressor operation start, the abnormality stop occurs. (The timer lamp flashes 2 times.)
2) **Abnormality of indoor fan motor:** The indoor fan motor revolves at a rate under 300 rpm for 30 seconds or longer, the RUN lamp will flash.
3) **Abnormality of heat exchanger thermistor:** RUN lamp will flashing when the input temperature of the heat exchanger thermistor measures less than –20ºC for more than 15 seconds with the airconditioner “OFF”. (will not flashing during operation)
4) **Abnormality room temperature thermistor:** RUN lamp will flashing when the input temperature of the room temperature thermistor measures less than –20ºC for more than 15 seconds with the airconditioner “OFF”. (will not flashing during operation)

Note (1) If the above abnormalities happen concurrently, the lamp will flashing in the order of item number 1) through 4) above.

5 APPLICATION DATA

SAFETY PRECAUTIONS

- Please read these "Safety Precautions" first then accurately execute the installation work.
- Though the precautionary points indicated herein are divided under two headings, ⚠WARNING and ⚠CAUTION, those points which are related to the strong possibility of an installation done in error resulting in death or serious injury are listed in the ⚠WARNING section. However, there is also a possibility of serious consequences in relationship to the points listed in the ⚠CAUTION section as well. In either case, important safety related information is indicated, so by all means, properly observe all that is mentioned.
- After completing the installation, along with confirming that no abnormalities were seen from the operation tests, please explain operating methods as well as maintenance methods to the user (customer) of this equipment, based on the owner's manual. Moreover, ask the customer to keep this sheet together with the owner's manual.

⚠ WARNING

- To disconnect the appliance from the mains supply this appliance must be connected to the mains by means of a circuit breaker or a switch (use a recognized 16A) with a contact separation of at least 3mm.
- The appliance shall be installed in accordance with national wiring regulations.
- This system should be applied to places as households, residences and the like. Application to inferior environment such as engineering shop could cause equipment malfunction.
- Please entrust installation to either the company which sold you the equipment or to a professional contractor. Defects from improper installations can be the cause of water leakage, electric shocks and fires.
- Execute the installation accurately, based on following the installation manual. Again, improper installations can result in water leakage, electric shocks and fires.
- For installation, confirm that the installation site can sufficiently support heavy weight. When strength is insufficient, injury can result from a falling of the unit.
- For electrical work, please see that a licensed electrician executes the work while following the safety standards related to electrical equipment, and local regulations as well as the installation instructions, and that only exclusive use circuits are used.
  Insufficient power source circuit capacity and defective installment execution can be the cause of electric shocks and fires.
- Accurately connect wiring using the proper cable, and insure that the external force of the cable is not conducted to the terminal connection part, through properly securing it improper connection or securing can result in heat generation or fire.
- Take care that wiring does not rise upward ,and accurately install the lid/service panel.It's improper installation can also result heat generation or fire.
- When setting up or moving the location of the air conditioner, do not mix air etc. or anything other than the designated refrigerant (R22) within the refrigeration cycle.
  Rupture and injury caused by abnormal high pressure can result from such mixing.
- Always use accessory parts and authorized parts for installation construction. Using parts not authorized by this company can result in water leakage, electric shock, fire and refrigerant leakage.
- Ventilate the work area when refrigerant leaks during the operation.
  Coming in contact with fire, refrigerant could generate toxic gas.
- Confirm after the foundation construction work that refrigerant does not leak.
  If coming in contact with fire of a fan heater, a stove or movable cooking stove, etc., refrigerant leaking in the room could generate toxic gas.

⚠ CAUTION

- Execute proper grounding. Do not connect the ground wire to a gas pipe, water pipe, lightning rod or a telephone ground wire.
  Improper placement of ground wires can result in electric shock.
- The installation of an earth leakage breaker is necessary depending on the established location of the unit.
  No installing an earth leakage breaker may result in electric shock.
- Do not install the unit where there is a concern about leakage of combustible gas.
  The rare even of leaked gas collecting around the unit could result in an outbreak of fire.
- For the drain pipe, follow the installation manual to insure that it allows proper drainage and thermally insulate it to prevent condensation. Inadequate plumbing can result in water leakage and water damage to interior items.

5.1 Selection of location for installation

(1) Indoor unit

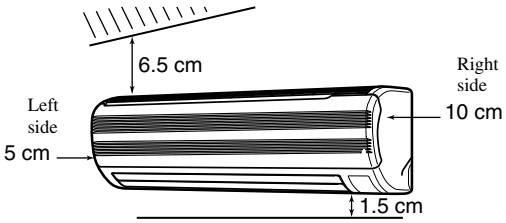
(a) Where there is no obstructions to the air flow and where the cooled air can be evenly distributed.

(b) A solid place where the unit or the wall will not vibrate.

(c) A place where there will be enough space for servicing. (Where space mentioned below can be secured)

(d) Where wiring and the piping work will be easy to conduct.

(e) The place where receiving part is not exposed to the direct rays of the sun or the strong rays of the street lighting.



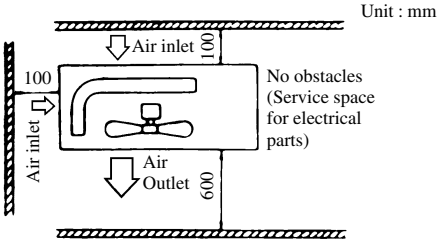
(2) Outdoor unit

(a) A place where good air circulation can be obtained and where rain, snow or sunshine will not directly strike the unit.

(b) A place where discharged hot air or unit's operating sound will not be a nuisance to the neighborhood.

(c) A place where servicing space can be secured.

(d) A place where vibration will not be enlarged.

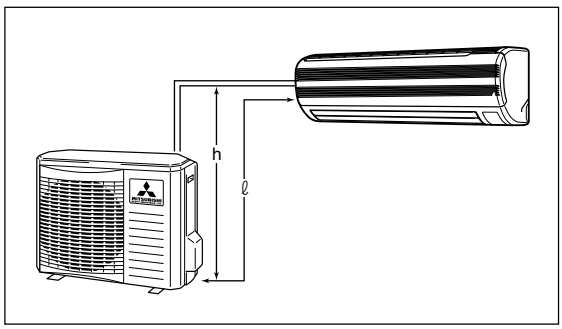


Notes (1) Blowing out port and suction port on the back side of the unit can be installed at a distance of 10cm from walls.
(In case the barrier is 1.2m or above in height, or is overhead, the sufficient space between the unit and wall shall be secured.)

(2) When the unit is installed, the space of the following dimension and above shall be secured.

(3) Limitations for one way piping length and vertical height difference.

Item \ Model		All models
One way piping length (ℓ)		15 m
Vertical height difference (H)	Outdoor unit is lower	5 m
	Outdoor unit is higher	5 m

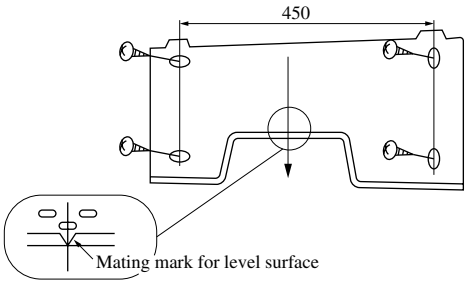


5.2 Installation of indoor unit

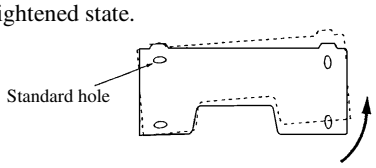
(1) Installation of installation board

(a) Fixing of installation board

Look for the inside wall structures (Intersediate support or pillar and firaly install the unit after level surface has been checked.)



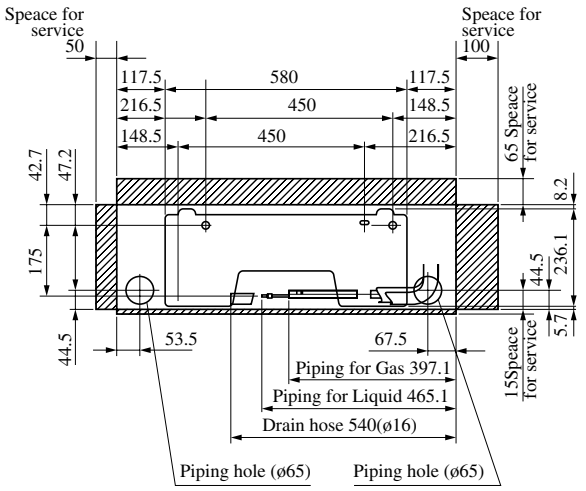
Adjustment of the installation board in the horizontal direction is to be conducted with four screws in a temporary tightened state.



Adjust so that board will be level by turning the board with the standard hole as the center.

INSTALLATION SPACE (INDOOR UNIT) (FRONT VIEW)

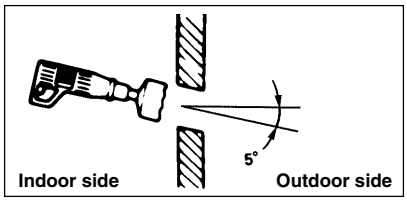
Unit : mm



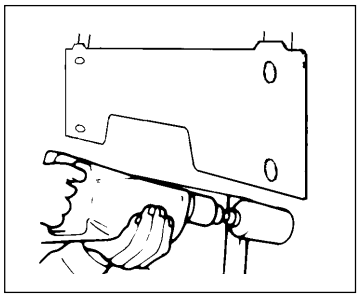
(2) Drilling of holes and fixture sleeve (Option Parts)

When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use pipe hole sleeve sold separately.

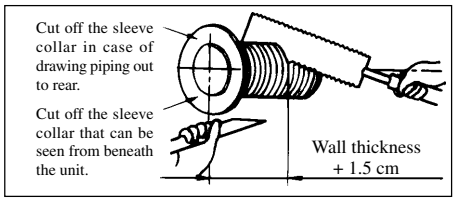
(a) Drill a hole with ø65 whole core drill



Note (1) Drill a hall with incline of 5 degree from indoor side to outdoor side.

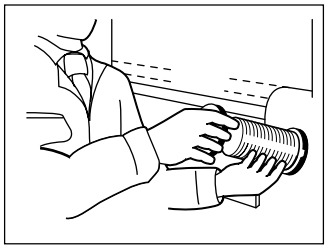


(b) Adjusting sleeve length

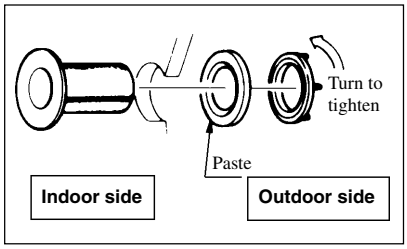


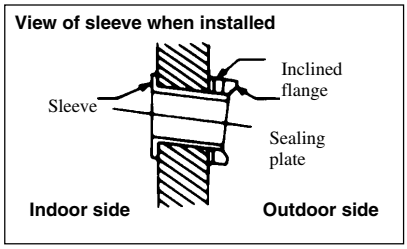
(c) Install the sleeve

(Inserting sleeve)



(*Sleeve + *Inclined + *Sealing plate)





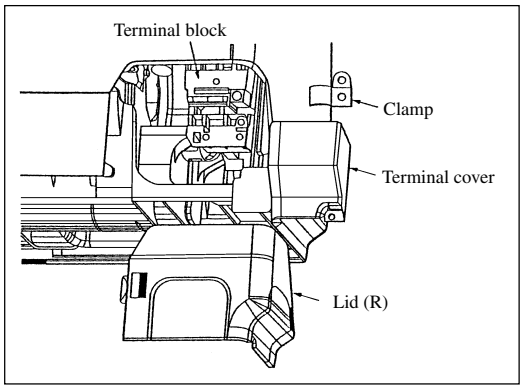
(3) Preparation of indoor unit

(a) Mounting of connecting wires

1) Remove the lid (R).
2) Remove the terminal cover.
3) Remove the wiring clamp.
4) Connect the connecting wire securely to the terminal block.

Use cables for interconnection wiring to avoid loosening of the wires.
CENELEC code for cables. Required field cables.

H05	RNR3G1.5 (Example) or 245IEC57
H	Harmonized cable type
05	300/500 volts
R	Natural-and/or synth, rubber wire insulation
N	Polychloroprene rubber conductors insulation
R	Standed core
4or5	Number of conductors
G	One conductor of the cable is the earth conductor (yellow/ green)
1.5	Section of copper wire (mm^2)



① Connect the connection wire securely to the terminal block. If the wire is not affixed completely, contact will be poor,and it is dangerous as the terminal block may heat up and catch fire.
② Take care not to confuse the terminal numbers for indoor and outdoor connections.
③ Affix the connection wire using the wiring clamp.

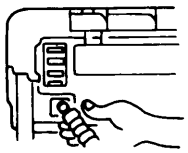
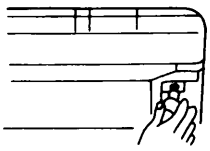
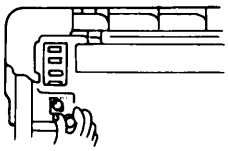
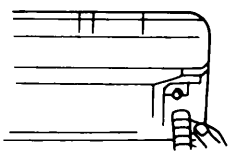
5) Fix the connecting wire by wiring clamp.
6) Attach the lid.
7) Close the suction grille.

(b) Protective taping (Protect the cable with tape at the section where the cable passes through the hole opened on the wall.)

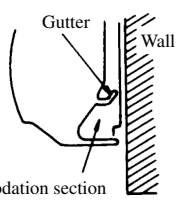
(c) Forming of pipe (Holding down the pipe at the root, change the pipe direction, extend it and adjust according to the circumstance.)

[When the pipe is extended to left and taken out from the rear center]

(Drain pipe relocation procedure)

1. Remove the drain pipe.	2. Remove the drain cap.	3. Insert the drain cap.	4. Connect the drain pipe.
			
● Loosen the spring clamp to remove.	● Remove by hand or use cutting pliers, etc.	● Securely insert the drain cap removed in the step 2. Note: If it is inserted in sufficiently, water leakage could result.	● Loosen the spring clamp and securely insert the drain pipe. Note: If it is inserted insufficiently, water leakage could result.

Since this air conditioner has been designed to collect dew drops on the rear surface to the drain pan, do not attach the power cord above the gutter.

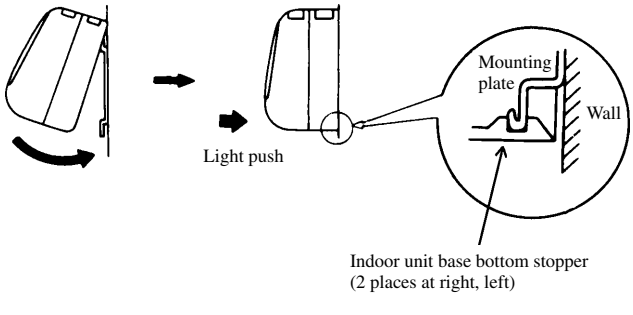


(4) Installation on indoor unit

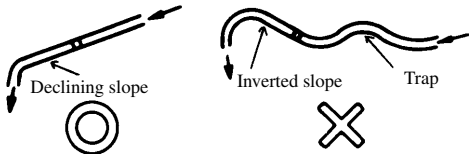
(a) Install the indoor unit on the mounting plate.

Hook the upper part of the indoor unit on the stoppers disposed at the upper part of the mounting plate and lightly push the lower part of the indoor unit so that the unit is fixed in position.

- When removing the indoor unit
  1) Disconnect the lid at right and left.
  2) Pull down the stoppers (right and left) provided at the bottom of the indoor unit base. (See the detail view shown at right.)



(b) Be sure not to leave any trap on the drain pipe.



5.3 Installation of outdoor unit

(1) Installation of outdoor unit

(a) Make sure that sufficient space for installation and service is secured.

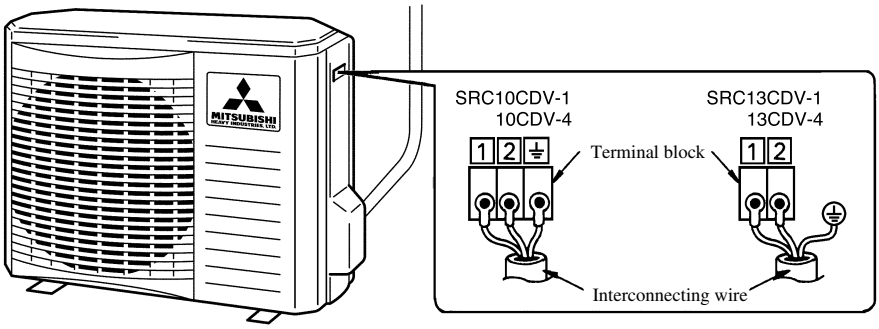
(b) Fix the leg sections of the unit on a firm base which will not play.
Attach cushion pads, etc. between the unit and the mounting fixtures not to transmit vibration to the building.

(c) Attach a drain elbow, etc. under the drain port of the bottom plate to guide drain water.
(Drain elbow should not be used where days when temperature drops below 0°C continue for several days. Draining may be disturbed by frozen water.)

(d) When installing the unit at a higher place or where it could be toppled with strong winds, secure the unit firmly with foundation bolts, wire, etc.

(2) Connection of indoor and outdoor connecting wiring

(a) Connect the wiring according to the number of the indoor terminal block. (Mis-wiring may cause the burning damage, and make sure to connect correctly.)



1 **Brown**	For power supply, indoor outdoor
2 **Blue**	For power supply, indoor outdoor
⏚ **Yellow/Green**	Earth wiring terminal

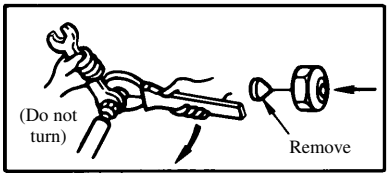
Notes (1) To prevent the mis-operation by noise, when the connecting wire too long for indoor and outdoor. Please hide the fixed wire in the pipe or use vinyl tape to set. Do not put wire into the unit.
(2) Please let the anchorized personal to decide by indoor wiring code whether connect the leakage breaker or not.

5.4 Refrigerant piping

(1) Preparation

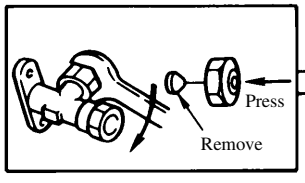
Keep the openings of the pipes covered with tapes etc. to prevent dust, sand, etc. from entering them.

Indoor unit side

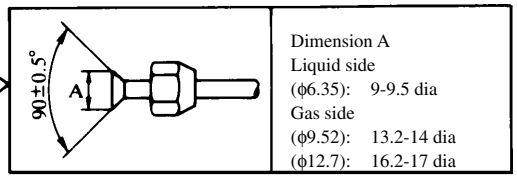


- Remove the flared nuts. (on both liquid and gas sides)

Outdoor unit side



- Remove the flared nuts. (on both liquid and gas sides)

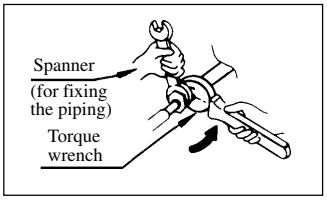


- Install the removed flared nuts to the pipes to be connected, then flare the pipes.

(2) Connection of refrigerant piping

Indoor unit side

- Connect firmly gas and liquid side pipings by Torque wrench.

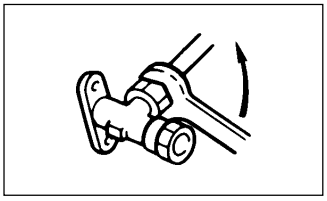


- Specified torquing value:

Liquid side (ø6.35) : 15.7~19.6N·m (1.6~2.2kgf·m)
Gas side (ø9.52) : 29.4~39.2N·m (3.0~4.0kgf·m)
(ø12.7) : 39.2~49.0N·m (4.0~5.0kgf·m)

Outdoor unit side

- Connect firmly gas and liquid side pipings by Torque wrench.



- Specified torquing value:

Liquid side (ø6.35) : 15.7~19.6N·m (1.6~2.0kgf·m)
Gas side (ø9.52) : 29.4~39.2N·m (3.0~4.0kgf·m)
(ø12.7) : 39.2~49.0N·m (4.0~5.0kgf·m)

- Use one more spanner to fix the valve.

- Always use a Torque wrench and back up spanner to tighten the flare nut.

(3) Air purge

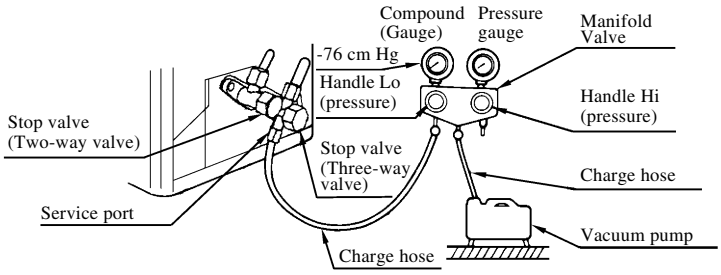
(a) Tighten all flare nuts in the pipings both indoor and outside will so as not to cause leak.

(b) Connect service valve, charge hose, manifold valve and vacuum pump as is illustrated below.

(c) Open manifold valve handle Lo to its full width, and perform vacuum or evacuation.
Continue the vacuum or evacuation operation for 15 minutes or more and check to see that the vacuum gauge reads – 0.1 MPa (– 76 cmHg).

(d) After completing vacuum operation, fully open service valve (Both gas and liquid sides) with hexagon headed wrench.

(e) Check for possible leakage of gas in the connection parts of both indoor and outdoor.



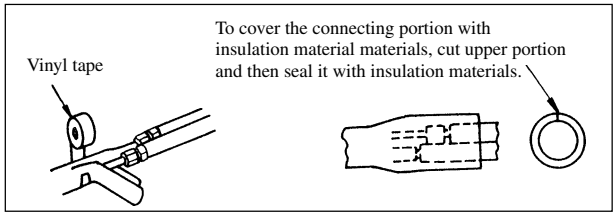
♦ Additional refrigerant charge

- **All models**

When refrigerant piping exceeds 7.5m conduct additional refrigerant charge after refrigerant sweeping.
7.5m over 10m:Additional charge amount per meter = 10g/m
10m over 15m:Additional charge amount per meter=30g/m
[Example]
How much amount of additional charge for 15m piping?
(10 – 7.5)m × 10g/m+(15-10)m×30g/m=175g | 175g for additional charge |

(4) Insulation of connecting portion

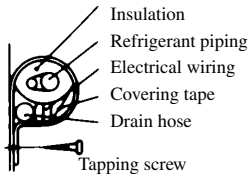
(a) Cover the connecting portion of the refrigerant piping with the pipe cover and seal them.
If neglecting to do so, moisture occurs on the piping and water will drip out.



(b) Finishing and fixing

(i) Tie up the piping with wrapping tape, and shape it so that it conforms to which the pipe is attached.

(ii) Fix them with clamps as right figure.



Cover the exterior portion with covering tape and shape the piping so it will match the contours of the route that the piping to take. Also fix the wiring and pipings to the wall with clamps.

5.5 Test run

(1) Conduct trial run after confirming that there is no gas leaks.

(2) When conducting trial run set the remote controller thermostat to continuous operation position. However when the power source is cut off or when the unit's operation switch is turned off or was turned to fan operation position, the unit will not go into operation in order to protect the compressor.

(3) Insert in electric plug into the electric outlet and make sure that it is not loose.

(a) When there is something wrong with the electric outlet and if the insertion of the electric plug is insufficient, there may occur a burn out.

(b) It is very important to be careful of above when plugging in the unit to an already furnished electrical outlet.

(4) Explain to the customer on the correct usage of the air conditioner in simple layman's terms.

(5) Make sure that drain flows properly.

(6) Standard operation data

(220V)

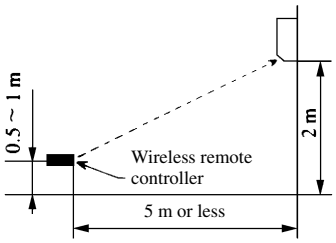
Item \ Model	SRK10CDV-1, 10CDV-4	SRK13CDV-4
Low pressure MPa (kgf/cm²)	0.45~0.55 (0.52MPa)	0.45~0.55 (0.51MPa)
Temp. difference between return air and supply air (°C)	11~15	12~16
Running current (A)	4.2	6.1

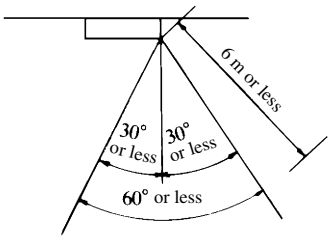
Note (1) The data are measured at following conditions
Ambient air temperature
Indoor side: Cooling ... 27˚C DB, 19˚C WB
Outdoor side: Cooling ... 35˚C DB, 24˚C WB

5.6 Precautions for wireless remote controller installation and operation

(1) Wireless remote controller covers the following distances:

(a) When operating facing the air conditioner:

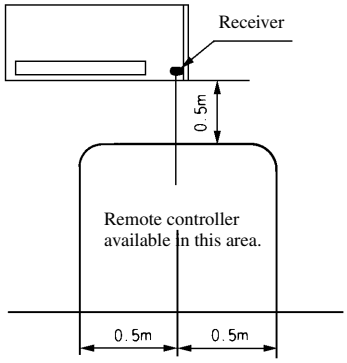




Notes (1) The remote controller is correctly facing the sensing element of the air conditioner when being manipulated.
(2) The typical coverage is indicated (in the left illustration). It may be more or less depending on the installation.
(3) The coverage may be less or even nil. If the sensing element is exposed to strong light, such as direct sunlight, illumination, etc., or dust is deposited on it or it is used behind a curtain, etc.

(b) When manipulating the remote controller mounted on a wall:

Make sure that it works normally (i.e., transmission/reception signal is audible) before mounting.

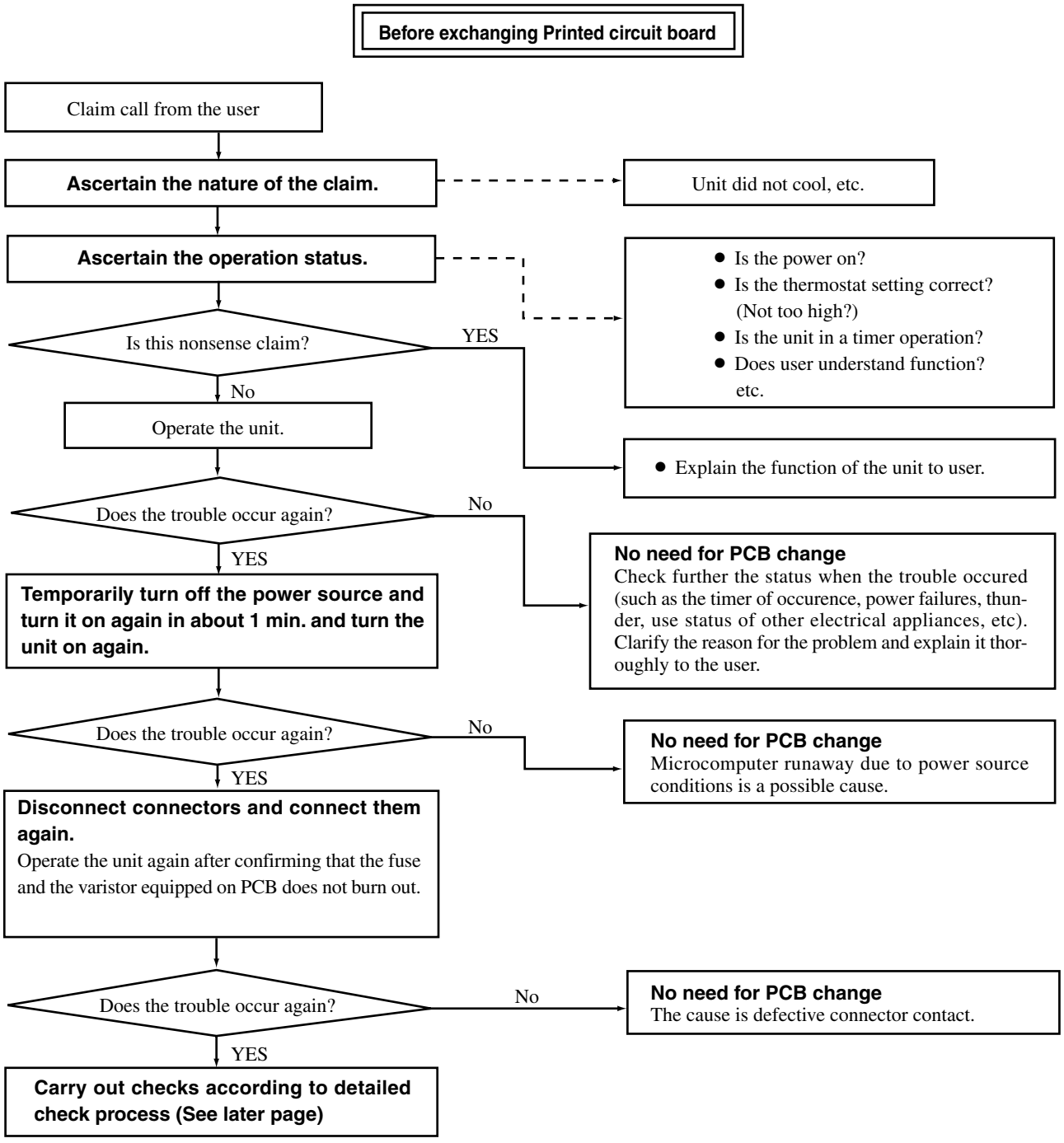


6 MAINTENANCE DATA

6.1 Trouble shooting

(1) Trouble shooting to be performed prior to exchanging PCB, (Printed circuit board) [Common to all models]

All the models described in this chapter are controlled by a microcomputer. When providing maintenance service to customers it is necessary to understand the function controlled by a micro computer thoroughly, so as not to mistakenly identify correct operations as mis-operations. It is also necessary to perform the following simple checks before conducting detailed checks or exchanging printed circuit board.

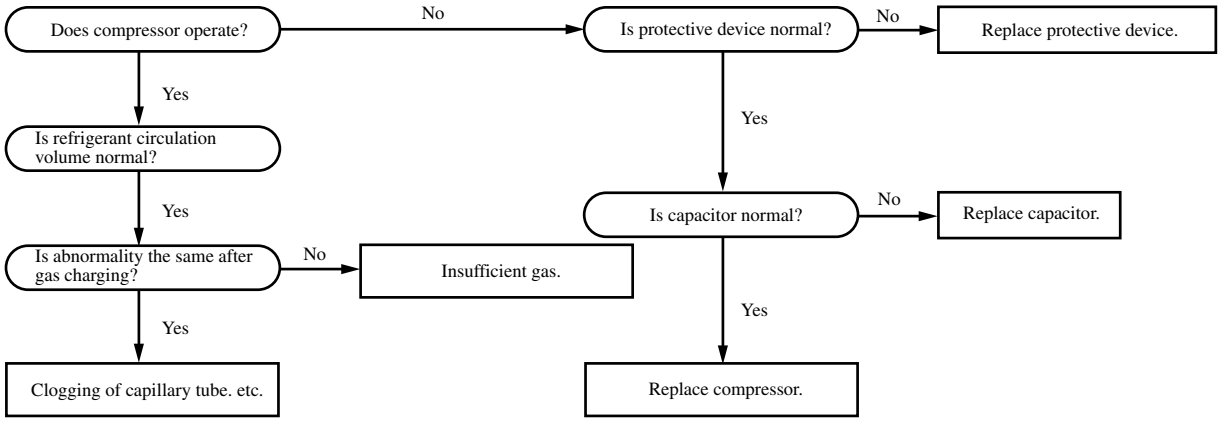


(2) Indication of Self Diagnosis (Indoor unit)

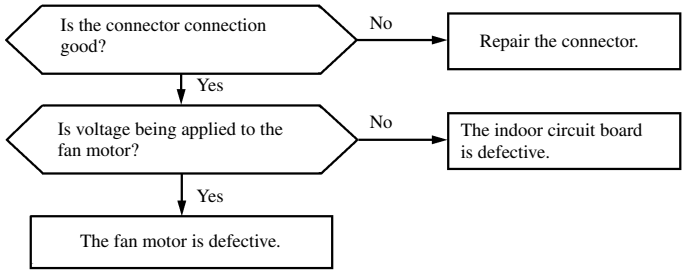
		Connect of Defect	Place of defect
TIMER lamp is lights continuously.	RUN lamp is flashing. (1 Time flash.)	Abnormality of heat exchanger thermistor.	● Disconnection of heat exchanger thermistor.
	RUN lamp is flashing. (2 Time flash.)	Abnormality of room temperature thermistor.	● Disconnection of room temperature thermistor.
	RUN lamp is flashing. (6 Time flash.)	Abnormality of indoor fan motor.	● Fan motor is defective. ● Printed circuit board is defective.
RUN lamp is lights continuously.	TIMER lamp is flashing. (2 Time flash.)	Abnormality of outdoor unit.	● Compressor is defective. ● Capacitor is defective. ● Gas is short.

(3) Troubleshooting

Abnormality of outdoor unit [Compressor malfunction of insufficient gas (refrigerant)]



Abnormality of indoor fan motor (Fan motor defective, printed circuit board defective)



Abnormality of thermistor Disconnection of thermistor and defective connection of connector

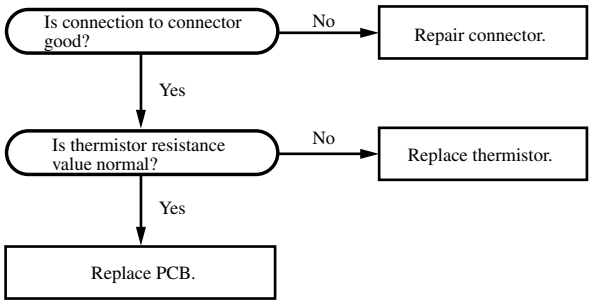
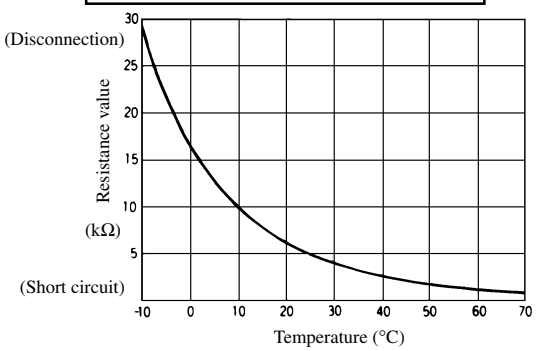
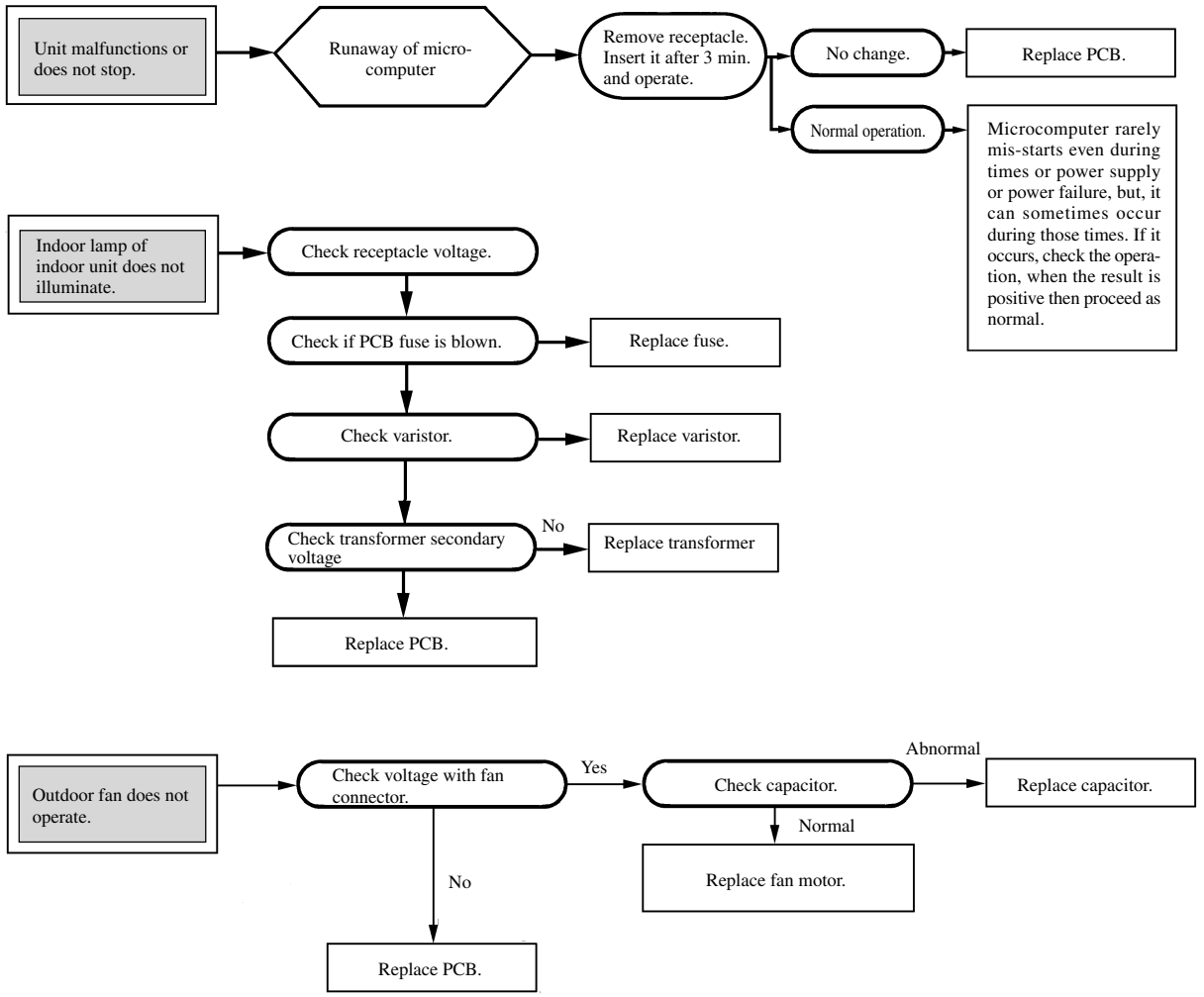


Chart for thermistor temperature resistance characteristics



(4) Trouble Diagnostic Procedures

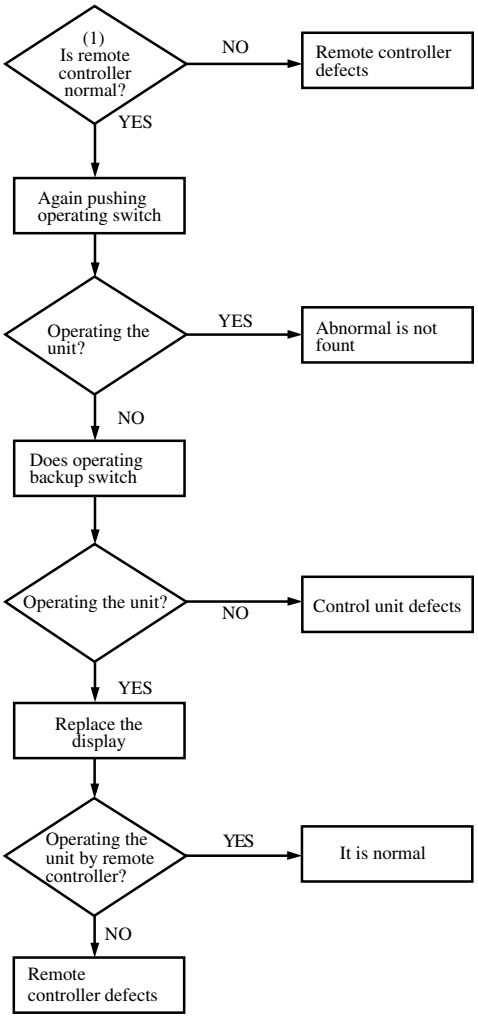


(5) Trouble shooting chart for the room temperature thermistor (Th_1), heat exchanger thermistor (Th_2)

Unit	Thermistor	Operation	Function	
			Short circuit	Broken connection
Indoor unit	**Room temperature thermistor (1) (Th_1) except for "continuous" thermal setting.**	**Cooling**	**Continuous Cooling operation** ● Cannot be turned ON/OFF by thermostat ● When FM_I is on. "AUTO" is continuously Hi	**Cooling will not operate** ● FM_I : continuous operation ● CM,FM_O: stopped
	Heat exchanger thermistor (Th_2)	**Cooling**	Cooling will not operate.	**Cooling will operate** ● Heat exchanger frost preventer begins to operate ● Cools alternately for 10 minutes, stopping for 3 minutes.

Note (1) When the room temperature thermistor (Th_1) will not operate normally. Cooling operation may be run continuously by putting the thermostat setting on "CONTINUOUS"

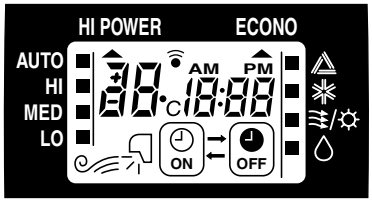
(6) How to make sure of remote controller



Note (1) How to check the remote controller

(a) Press the reset switch of remote controller.

(b) If the almost normal if entire display of remote controller is shown after 0 indication.



6.2 Servicing

(1) Evacuation

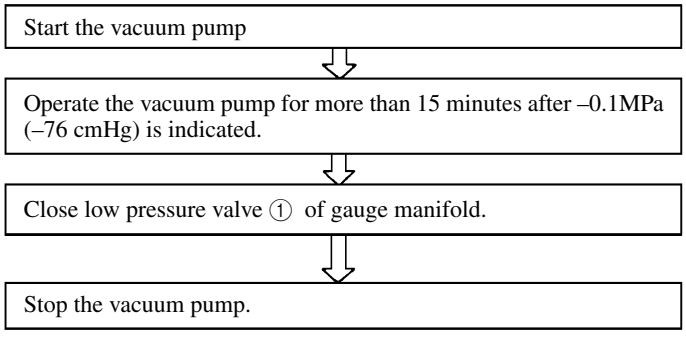
The evacuation is an procedure to purge impurities ..... noncondensable gas, air, moisture from the refrigerant equipment by using a vacuum pump. Since the refrigerant R22 is very insoluble in water, even a small amount of moisture left in the refrigerant equipment will freeze, causing what is called water clogging.

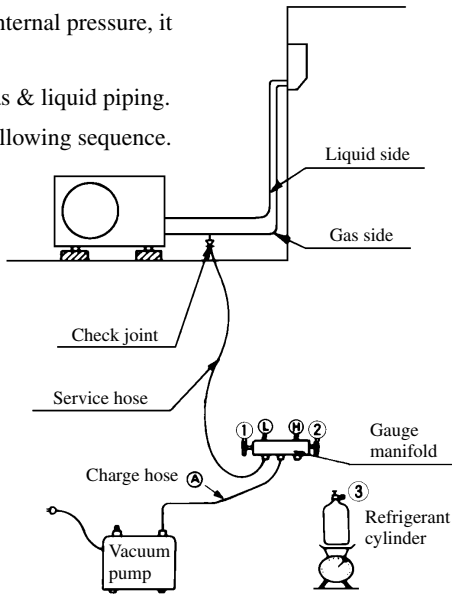
- **Evacuation procedure**

(a) Check to ensure that there is no internal pressure in the unit. If there is an internal pressure, it should be relieved through the check joint.

(b) Connect the service hoses of the gauge manifold to the check joint of the gas & liquid piping.

(c) Connect a vacuum pump to the charge hose A . Repeat evacuation in the following sequence.





Notes (1) Do not use the refrigerant pressure to expel air.
(2) Do not use the compressor for evacuation.
(3) Do not operate the compressor in the vacuum condition.

(2) Refrigerant charge

(a) Discharge refrigerant entirely from the unit and evacuate the unit.
Note: Addition of refrigerant without evacuation is unreasonable, because it will result in low charge or overcharge.

(b) Keep the gauge manifold and connect a refrigerant cylinder to the unit.

(c) Record the weight of the refrigerant cylinder on the balance. This is necessary for making sure of the charged refrigerant amount.

(d) Purge air from the charge hose A .
Firstly loose the connecting portion of the charge hose A at the gauge manihold side and open the valve ③ for a few seconds, and then immediately retighten it after observing that gas is blow out from the loosened portion.

(e) Open the valve ① and ③ after discharging air from the charge hose A , then the gas refrigerant begins flowing from the cylinder into the unit. Be sure to erect the refrigerant cylinder upright to let gas refrigerant flow into the unit.

(f) When refrigerant has been charged into the system to some extent, refrigerant flow becomes stagnant, when that happens, start the compressor in cooling cycle until the unit is filled with gas to the specified weight.

(g) Making sure of the refrigerant amount, close the valve ③.

(h) Disconnect the charge hose from the unit. Cover the valve ports of the refrigerant piping with caps and tighten them securely.

(i) Check for gas leakage applying a gas leak detector along the piping line.

(j) Start the air conditioner and make sure of its operating condition ..... high side and low side pressures and temperature difference between suction air and outlet air.

MODELS SRK06CC-1 SRK06CC-4 SRK07CC-1 SRK07CC-4
SRK09CC-1 SRK09CC-4 SRK12CC-1 SRK12CC-4

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1 GENERAL INFORMATION

1.1 Specific features

The “Mitsubishi Daiya” room air conditioner: **SRK series** are of split and wall mounted type and the unit consists of indoor unit and outdoor unit with refrigerant precharged in factory. The indoor unit is composed of room air cooling or heating equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(1) Remote control flap

The flap can be automatically controlled by operating wireless remote control.

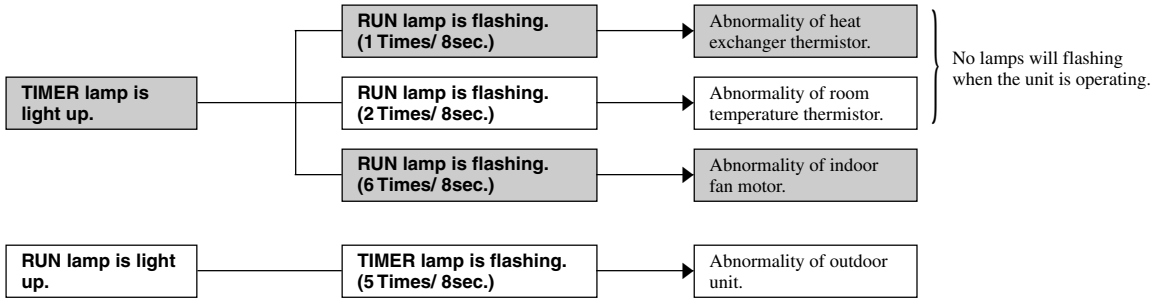
- AUTO (Natural flow) : Flap operation is automatically control.
- Swing : This will swing the flap up and down.
- Memory flap : Once the flap position is set, the unit memorizes the position and continues to operate at the same position from the next time.

(2) Automatic Operation

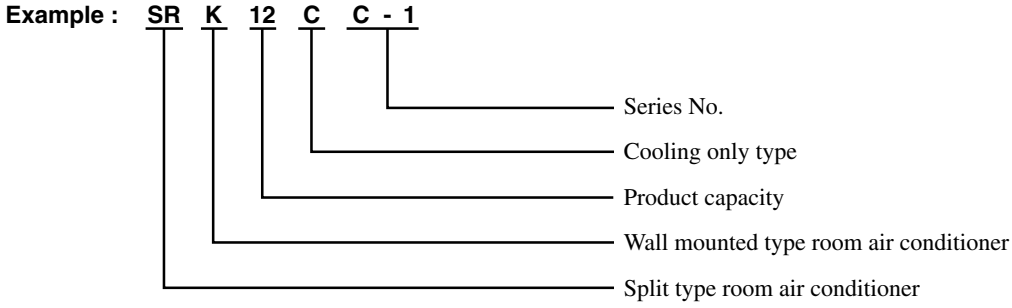
When the remote control switch is set on “auto”, it will either automatically decide operation mode such as cooling, heating and thermal dry, or operate in the operation mode before it has been turned to automatic control.

(3) Self diagnosis Function

We are constantly trying to do better service to our customers by installing such judges that show abnormality of operation as follows.



1.2 How to read the model name



2 SELECTION DATA

2.1 Specifications

Model SRK06CC-1, -4 (Indoor unit)
SRC06CC-1, -4 (Outdoor unit)

Item			Model	SRK06CC-1, -4	SRC06CC-1, -4
Cooling capacity(1)			W	1800	
Power source				1 Phase, 220/240V, 50Hz	
Operation data(1)	Cooling input		kW	0.93	
	Running current (Cooling)		A	4.3/4.6	
	Inrush current		A	18.2	
	COP (In cooling)			1.93	
	Noise level(4)		dB (A)	40	54
Exterior dimensions Height × Width × Depth			mm	250 × 750 × 178	540 × 645 × 245
Color				Ivory white	Polar white
Net weight			kg	7.5	26
Refrigerant equipment Compressor types & Q'ty				–	RM5512GNE1 (Rotary type) × 1
Motor			kW	–	0.75
Starting method				–	Line starting
Heat exchanger				Louver fins & tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 0.63 (Pre-Charged up to the piping length of 10m)	
Refrigerant oil			ℓ	0.35 (BARREL FREEZE 32SAM)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
Motor			W	17	20
Air flow (at High)			CMM	6.5	21
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow)	–
Safety equipment				–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D		mm (in)	Liquid line: ø6.35 (1/4") Gas line: ø9.52 (3/8")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.4 m Gas line : 0.35 m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				3 m (3 cores)	
Connection wiring		Size × Core number		1.5 mm² × 2 cores	
		Connecting method		Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220/240 V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 10 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is 10 to 15 m, add 20 g refrigerant per meter.

(4) Expressed in sound pressure level.

Model SRK07CC-1, -4 (Indoor unit)
SRC07CC-1, -4 (Outdoor unit)

Item			Model	SRK07CC-1, -4	SRC07CC-1, -4
Cooling capacity(1)			W	2200	
Power source				1 Phase, 220/240V, 50Hz	
Operation data(1)	Cooling input		kW	0.94	
	Running current (Cooling)		A	4.3/4.7	
	Inrush current		A	18.2	
	COP (In cooling)			2.34	
	Noise level(4)		dB (A)	40	54
Exterior dimensions Height × Width × Depth			mm	250 × 750 × 178	540 × 645 × 245
Color				Ivory white	Polar white
Net weight			kg	7.5	26
Refrigerant equipment Compressor types & Q'ty				–	RM5512GNE1 (Rotary type) × 1
	Motor		kW	–	0.75
	Starting method			–	Line starting
Heat exchanger				Louver fins & tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 0.63 (Pre-Charged up to the piping length of 10m)	
Refrigerant oil			ℓ	0.35 (BARREL FREEZE 32SAM)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
	Motor		W	17	20
Air flow (at High)			CMM	6.5	21
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow)	–
Safety equipment				–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D		mm (in)	Liquid line: ø6.35 (1/4") Gas line: ø9.52 (3/8")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.4 m Gas line : 0.35 m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				3 m (3 cores)	
Connection wiring	Size × Core number			1.5 mm² × 2 cores	
	Connecting method			Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220/240 V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 10 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is 10 to 15 m, add 20 g refrigerant per meter.

(4) Expressed in sound pressure level.

Model SRK09CC-1, -4 (Indoor unit)
SRC09CC-1, -4 (Outdoor unit)

Item			Model	SRK09CC-1, -4	SRC09CC-1, -4
Cooling capacity(1)			W	2500	
Power source				1 Phase, 220/240V, 50Hz	
Operation data(1)	Cooling input		kW	0.96	
	Running current (Cooling)		A	4.4/4.8	
	Inrush current		A	18.2	
	COP (In cooling)			2.60	
	Noise level(4)		dB (A)	45	54
Exterior dimensions Height × Width × Depth			mm	250 × 750 × 178	540 × 645 × 245
Color				Ivory white	Polar white
Net weight			kg	7.5	26
Refrigerant equipment Compressor types & Q'ty				–	RM5512GNE1 (Rotary type) × 1
	Motor		kW	–	0.75
	Starting method			–	Line starting
Heat exchanger				Louver fins & tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 0.63 (Pre-Charged up to the piping length of 10m)	
Refrigerant oil			ℓ	0.35 (BARREL FREEZE 32SAM)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
	Motor		W	17	20
Air flow (at High)			CMM	7.5	21
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow)	–
Safety equipment				–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D		mm (in)	Liquid line: ø6.35 (1/4") Gas line: ø9.52 (3/8")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.4 m Gas line : 0.35 m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				3 m (3 cores)	
Connection wiring		Size × Core number		1.5 mm² × 2 cores	
		Connecting method		Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220/240 V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 10 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is 10 to 15 m, add 20 g refrigerant per meter.

(4) Expressed in sound pressure level.

Model SRK12CC-1, -4 (Indoor unit)
SRC12CC-1, -4 (Outdoor unit)

Item			Model	SRK12CC-1, -4	SRC12CC-1, -4
Cooling capacity(1)			W	3500	
Power source				1 Phase, 220/240V, 50Hz	
Operation data(1)	Cooling input		kW	1.38	
	Running current (Cooling)		A	6.4/6.8	
	Inrush current		A	33.6	
	COP (In cooling)			2.53	
	Noise level(4)		dB (A)	43	51
Exterior dimensions Height × Width × Depth			mm	275 × 790 × 174	542 × 795 × 255
Color				Ivory white	Polar white
Net weight			kg	8	37
Refrigerant equipment Compressor types & Q'ty				–	RM5517GNE4 (Rotary type) × 1
	Motor		kW	–	1.3
	Starting method			–	Line starting
Heat exchanger				Louver fins & tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 1.3 (Pre-Charged up to the piping length of 7.5m)	
Refrigerant oil			ℓ	0.6 (BARREL FREEZE 32SAM)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
	Motor		W	16	18
Air flow (at High)			CMM	8.5	22
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow)	–
Safety equipment				–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D		mm (in)	Liquid line: ø6.35 (1/4") Gas line: ø12.7 (1/2")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.44 m Gas line : 0.39 m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number			1.5 mm² × 2 cores	
	Connecting method			Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220/240 V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 7.5 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is less than 10 m, add 10 g refrigerant per meter and when it is 10 to 15 m, add 30 g refrigerant per meter.

(4) Expressed in sound pressure level.

2.2 Range of usage & limitations

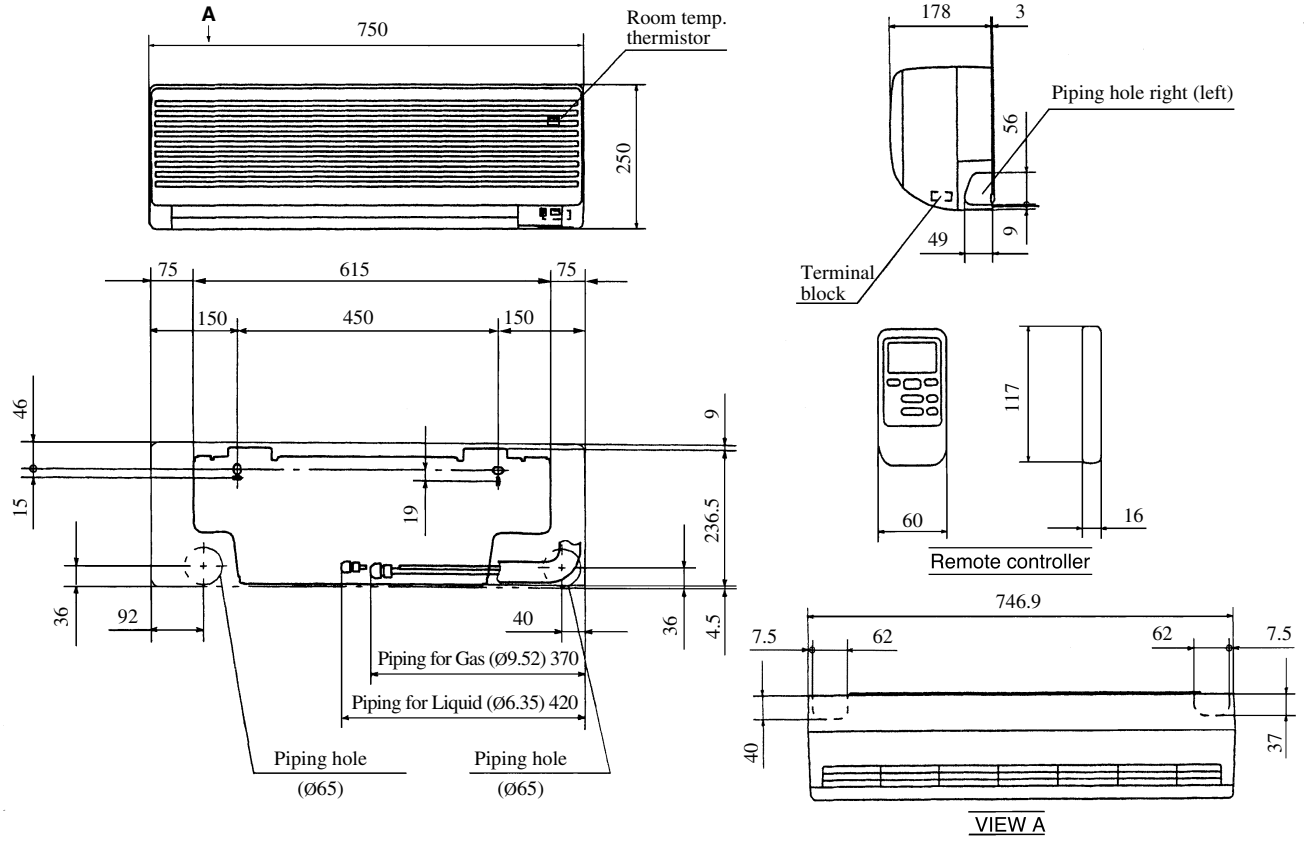
Item \ Models	All models
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart
Outdoor air temperature (Upper, lower limits)	
Refrigerant line (one way) length	Max. 15m
Vertical height difference between outdoor unit and indoor unit	Max. 5m (Outdoor unit is higher) Max. 5m (Outdoor unit is lower)
Power source voltage	Rating ± 10%
Voltage at starting	Min. 85% of rating
Frequency of ON-OFF cycle	Max. 10 times/h
ON and OFF interval	Max. 3 minutes

2.3 Exterior dimensions

(1) Indoor unit

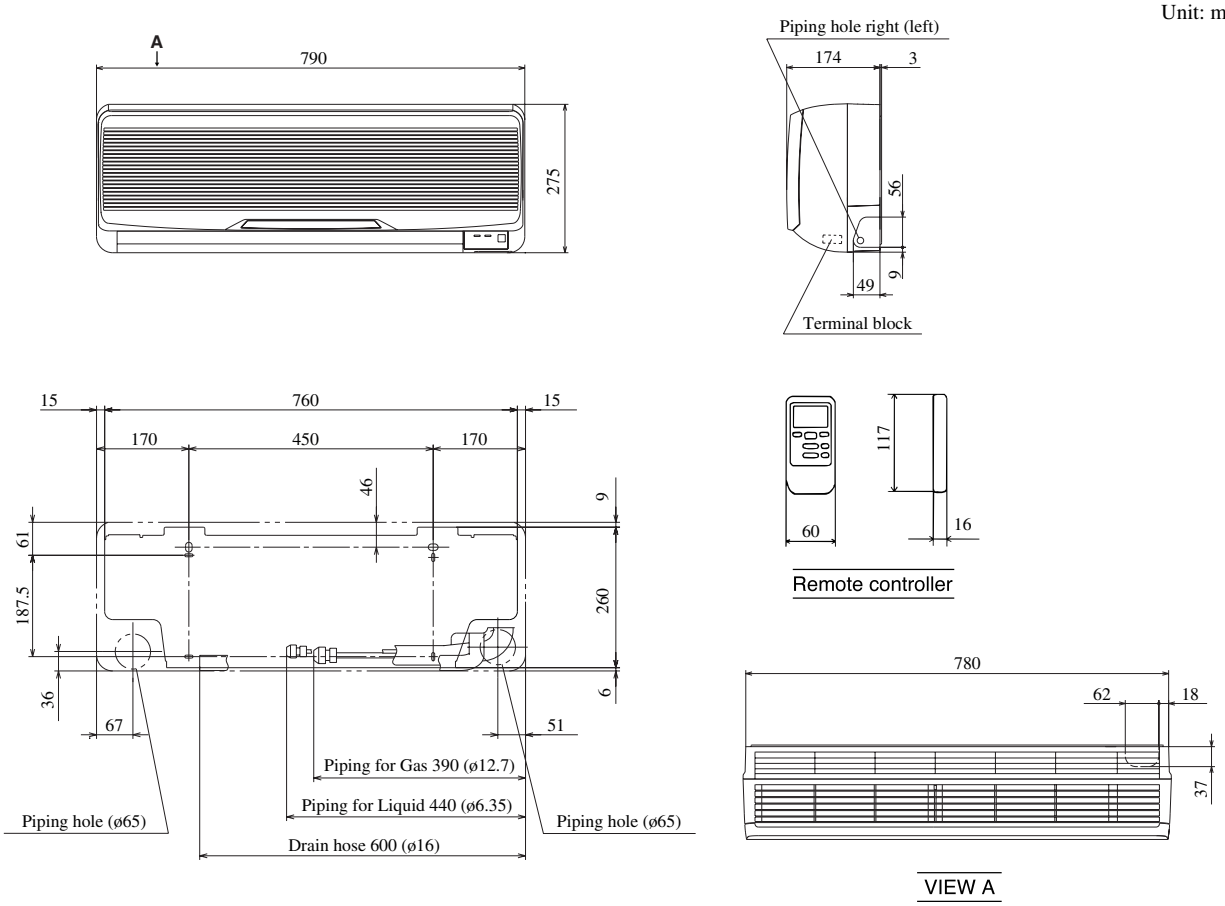
Models SRK06CC-1, 06CC-4, 07CC-1, 07CC-4, 09CC-1, 09CC-4

Unit: mm



Models SRK12CC-1, 12CC-4

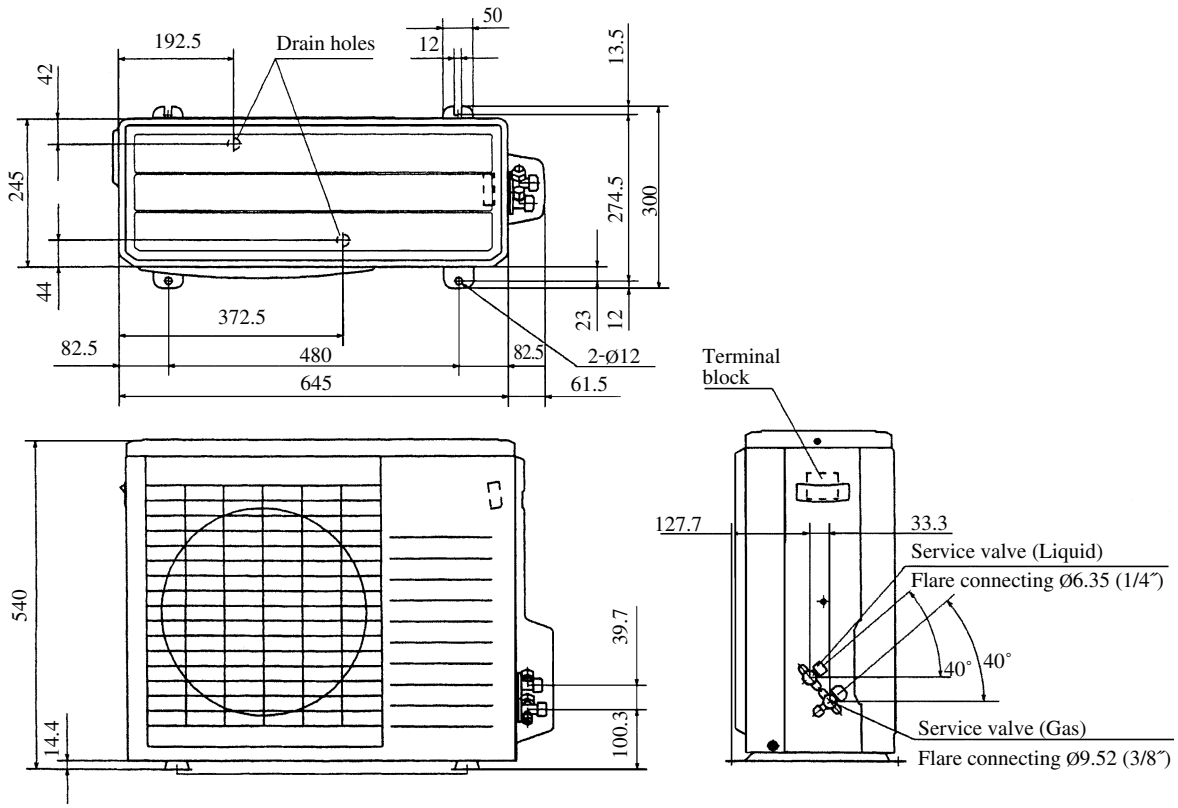
Unit: mm



(2) Outdoor unit

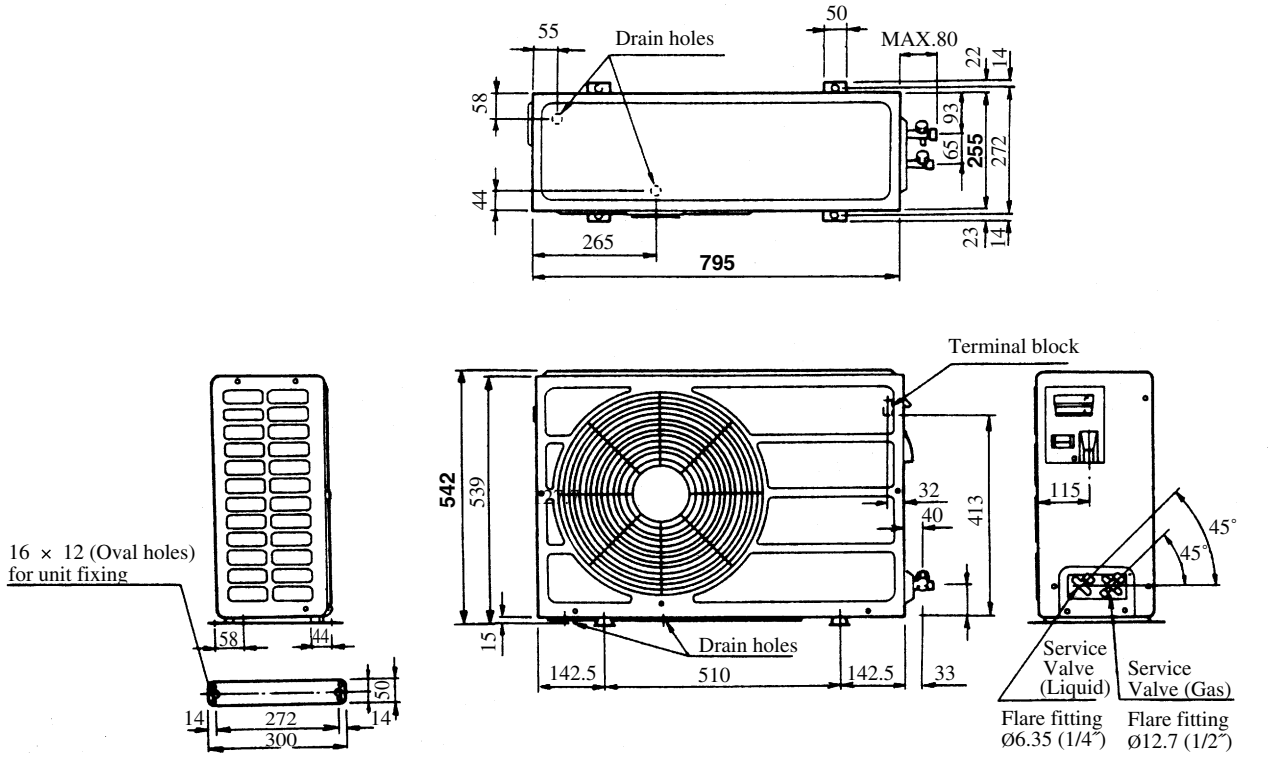
Models SRC06CC-1, 06CC-4, 07CC-1, 07CC-4, 09CC-1, 09CC-4

Unit: mm



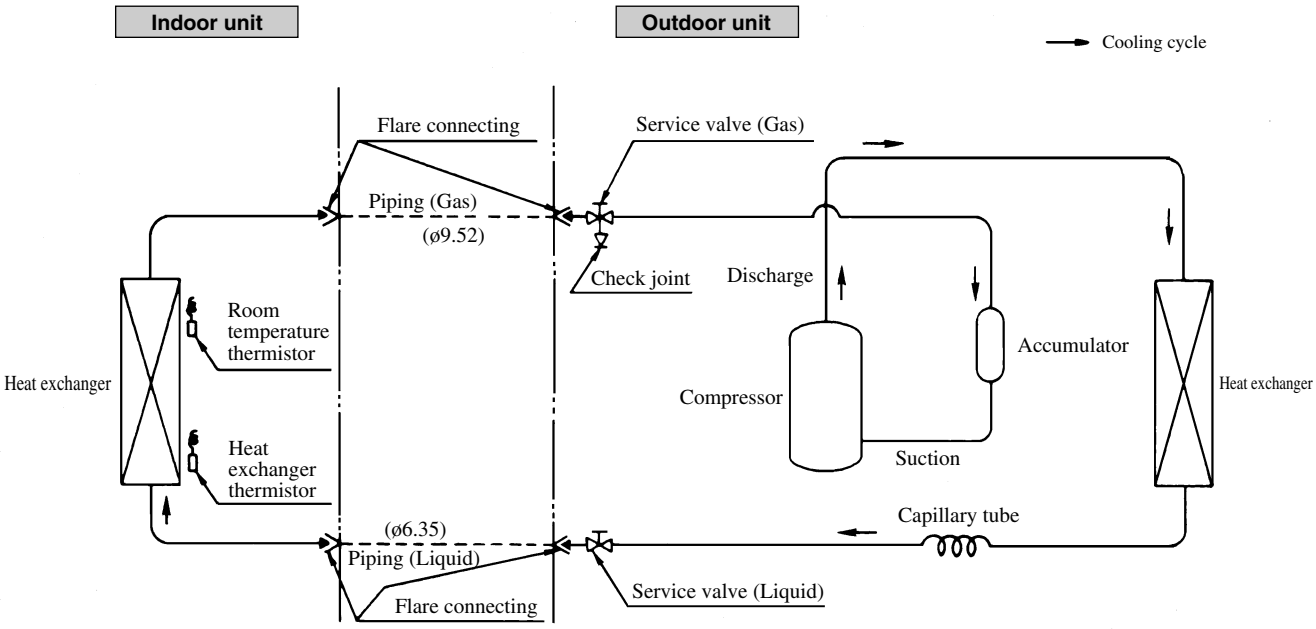
Models SRC12CC-1, 12CC-4

Unit: mm

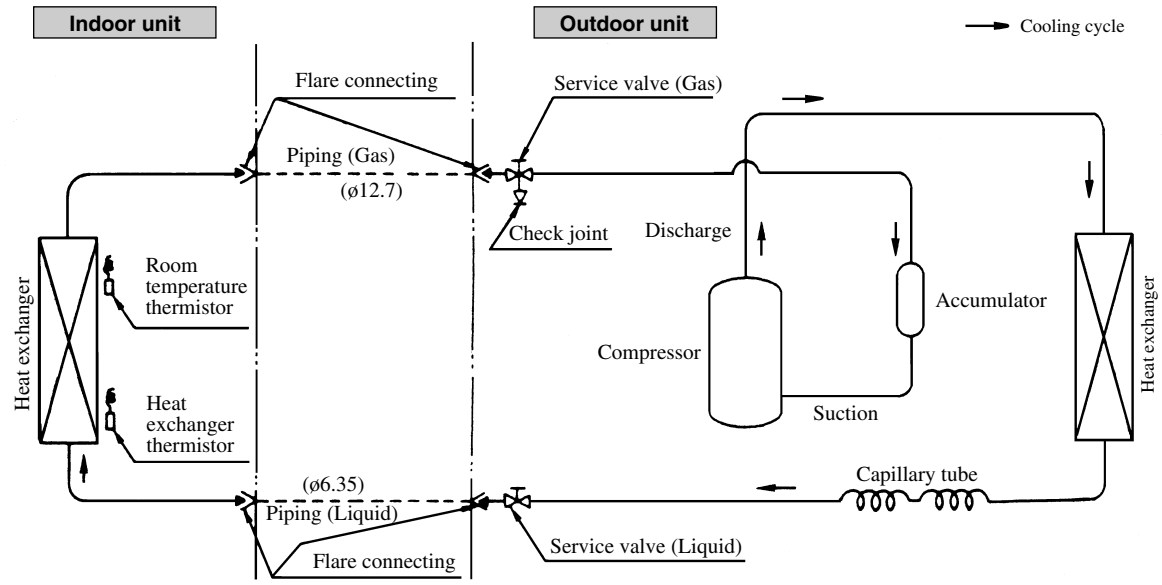


2.4 Piping system

Models SRK06CC-1, 06CC-4, 07CC-1, 07CC-4, 09CC-1, 09CC-4



Models SRK12CC-1, 12CC-4

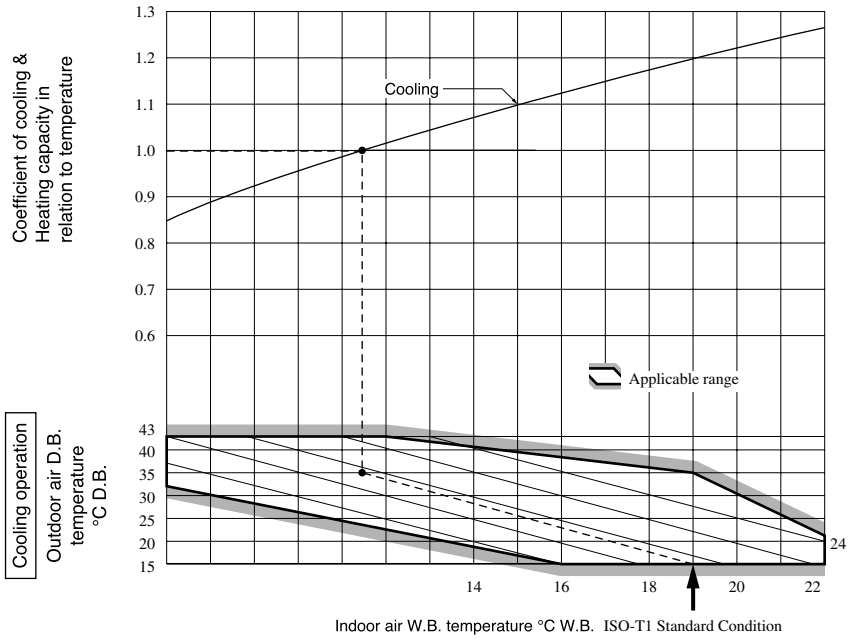


2.5 Selection chart

Correct the cooling capacity in accordance with the conditions as follows. The net cooling capacity can be obtained in the following way.

Net capacity = Capacity shown on specification × Correction factors as follows.

(1) Coefficient of cooling capacity in relation to temperatures



(2) Correction of cooling capacity in relation to one way length of refrigerant piping

It is necessary to correct the cooling capacity in relation to the one way piping length between the indoor and outdoor units.

Piping length [m]	7	10	15
Cooling	1.0	0.99	0.975

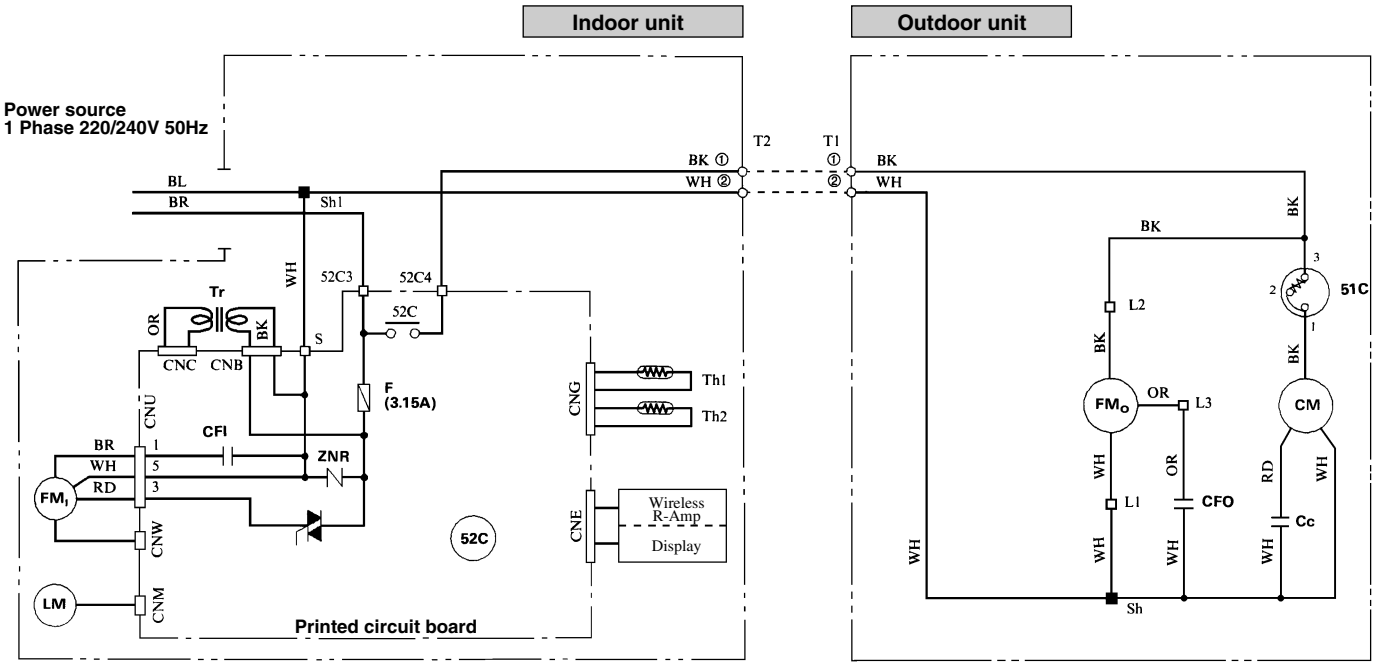
How to obtain the cooling capacity

Example : The net cooling capacity of the model SRK12CC-1, -4 with the piping length of 15m, indoor wet-bulb temperature at 19.0˚C and outdoor dry-bulb temperature 35˚C is Net cooling capacity = $\underset{\text{SRK12CC-1}}{3500} \times \underset{\text{Length 15m}}{0.975} \times \underset{\text{Factor by air temperatures}}{1.0} =$ **3412 w**

3 ELECTRICAL DATA

3.1 Electrical wiring

Models SRK06CC-1, 06CC-4, 07CC-1, 07CC-4, 09CC-1, 09CC-4



Color symbol

BK	Black
BL	Blue
BR	Brown
RD	Red
OR	Orange
WH	White

Meaning of marks

Symbol	Parts name	Symbol	Parts name
C_C	Capacitor for CM	**LM**	Louver motor
CF_I	Capacitor for FM_I	**$Th_{1,2}$**	Thermistor
CF_O	Capacitor for FM_O	**Tr**	Transformer
CM	Compressor motor	**ZNR**	Varistor
F	Fuse	**51C**	Motor protector for CM
FM_I	Fan motor (Indoor unit)	**52C**	Magnetic contactor for CM
FM_O	Fan motor (Outdoor unit)		

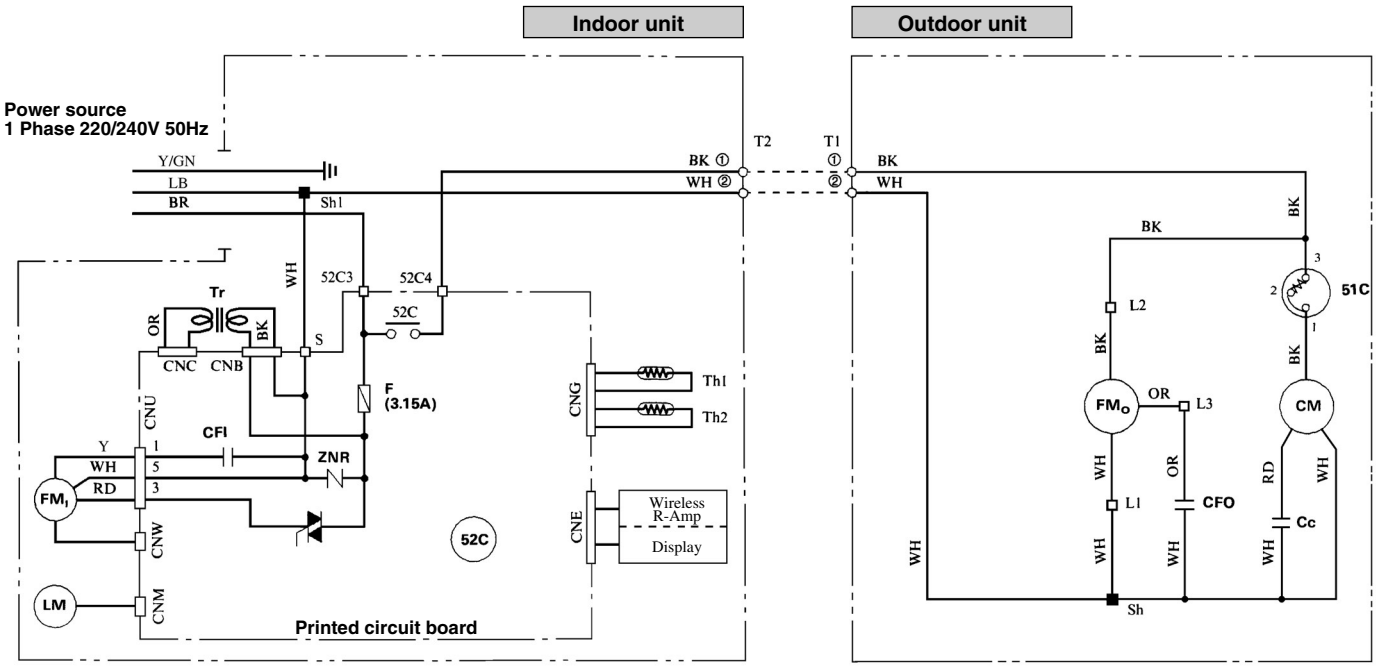
Table of relay operations

Operation / Relay symbol	Control part	Cooling
52C	**CM**	○

Notes (1) ○ : denotes magentized relay × : denotes demagnetized relay

(2) Th_1 is room temperature thermistor. Th_2 (the heat exchanger thermistor) is frost prevention thermistor. (for details, refer to pages 47)

Models SRK12CC-1, 12CC-4



Color symbol

BK	Black
BL	Blue
BR	Brown
LB	Light blue
Y	Yellow
RD	Red
OR	Orange
WH	White
Y/G	Yellow/Green

Meaning of marks

Symbol	Parts name	Symbol	Parts name
C_C	Capacitor for CM	**LM**	Louver motor
CF_I	Capacitor for FM_I	**$Th_{1,2}$**	Thermistor
CF_O	Capacitor for FM_O	**Tr**	Transformer
CM	Compressor motor	**ZNR**	Varistor
F	Fuse	**51C**	Motor protector for CM
FM_I	Fan motor (Indoor unit)	**52C**	Magnetic contactor for CM
FM_O	Fan motor (Outdoor unit)		

Table of relay operations

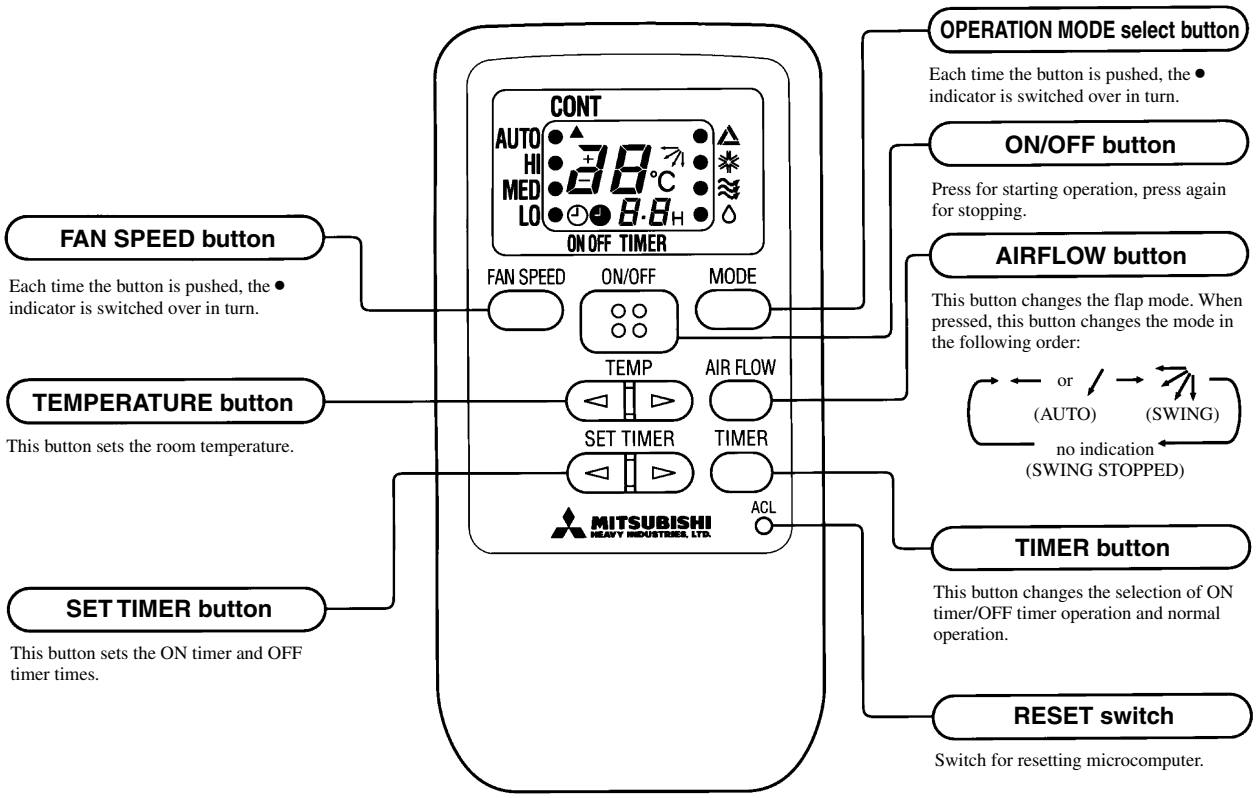
Relay symbol	Control part	Operation: Cooling
52C	**CM**	○

Notes (1) ○ : denotes magentized relay × : denotes demagnetized relay

(2) Th_1 is room temperature thermistor. Th_2 (the heat exchanger thermistor) is frost prevention thermistor. (for details, refer to pages 47)

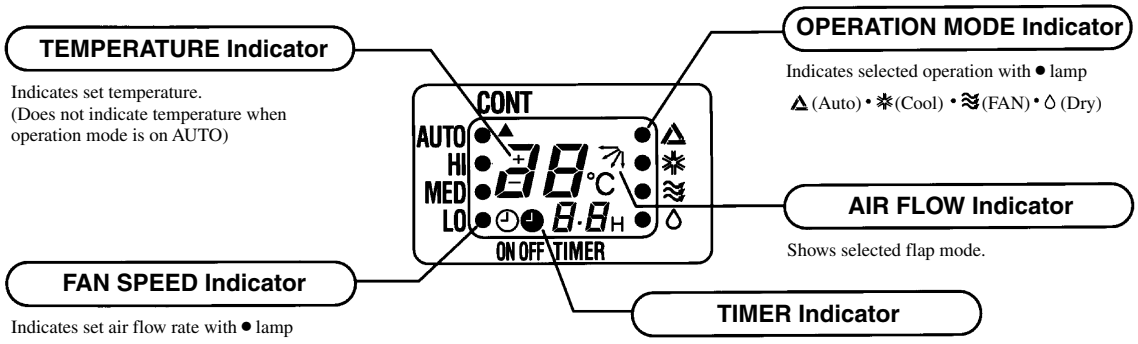
4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

(1) Operation control function by remote controller



● The above illustration shows all controls, but in practice only the relevant parts are shown.

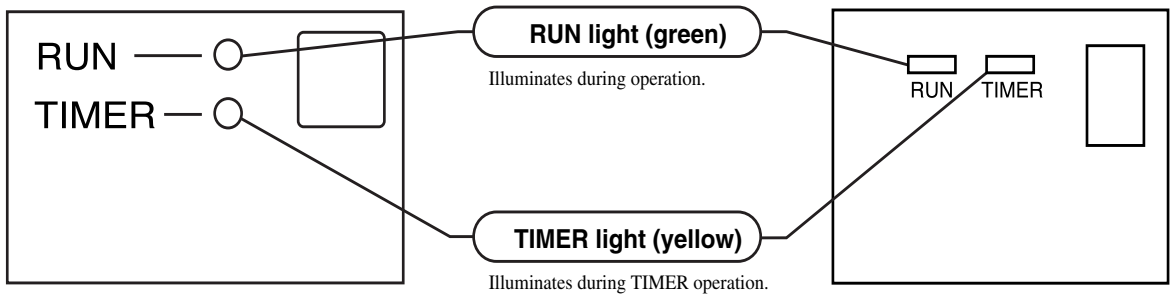
◆ **Indication section**



Unit indication section

● **06, 07, 09 type**

● **12 type**



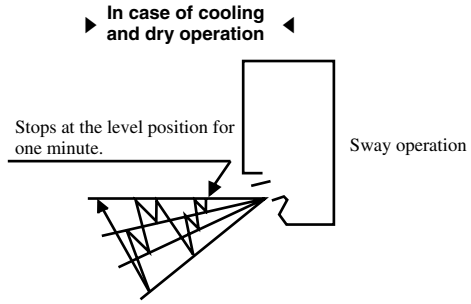
(2) Flap control

Control the flap by AIRFLOW button on the wireless remote controller.

(a) Natural flow (AUTO)

The flap will be automatically set to the angle of air flow best to operation.

(i) Starting time of operation



- The flap operation as shown above will be repeated.

(ii) When not operating

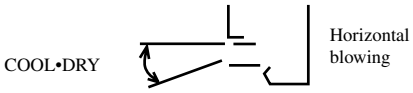
The flap returns to the position of air flow directly below, when operation has stopped.

(b) Memory flap

While the flap is operating if the AIRFLOW button is pushed once, it stops swinging at an angle.

As this angle is memorized in the microcomputer, the flap will be automatically set to the angle when next operation is started.

- Recommendable stopping angle of the flap



(c) Swing flap

Flap moves in upward and downward directions continuously.

(3) Back-up Switch

When the remote controller batteries become weak, or if the remote controller is lost or malfunctioning, this switch may be used to turn the unit on and off.

(a) Operation

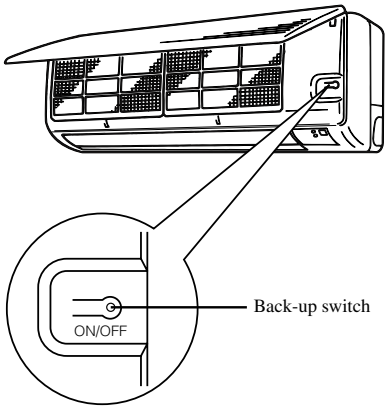
Push the switch once to place the unit in the automatic mode. Push it once more to turn the unit off.

(b) Details of operation

The unit will go into the automatic mode in which it automatically determines, from room temperature (as detected by thermistor), whether to go into the cooling or thermal dry modes.

Function / Operation mode	Room temperature setting	Fan speed	Flap	Timer switch
Cooling	About 26ºC	Auto	Natural flow	Continuous
Thermal dry	About 25ºC			

On operating in automatic operation mode by back-up switch, functions show in the above table are not altered, white, the other micro-computer control functions remain effective.



(4) AUTOMATIC operation

(a) Determination of operation mode

The blow operation of the indoor fan is carried out at the 1st speed for 20 seconds and the room temperature is checked to determine the operation mode automatically. (When the unit is operated by the turn-on timer, the blow operation is not carried out.)

	21ºC≦Room temperature<26ºC	26ºC≦Room temperature
Operation mode	Dry	Cooling

(b) When switching to automatic operation during "Cooling" "Dry" or when restarting with in 1 hour after stopping with automatic operation mode, the former operating mode is selected. (In this case, 20 seconds Lo operation of indoor fan is not performed). When the previous mode is in "FAN", operation mode is to be set by the above mentioned chart.

(c) Established temperature (operate by the established temperature button on remote controller).

		Wireless remote control signal (Indication)												
		-6	-5	-4	-3	-2	-1	±0	+1	+2	+3	+4	+5	+6
Temperature setting	Cooling	20	21	22	23	24	25	26	27	28	29	30	31	32
	Thermal dry	19	20	21	22	23	24	25	26	27	28	29	30	31

(5) Comfort timer settings

Temperature is checked beginning 1 hour before the set time, and the power is turned on before the timer setting as necessary to bring the temperature to the proper level by the set time.

Operation mode	Room temperature thermistor (Th_1)	Operating start time (amount of time previous to set time that operation begins)
Cooling	Over 40˚C	60 mins.
	Over 35˚C	30 mins.
	Over 30˚C	15 mins.

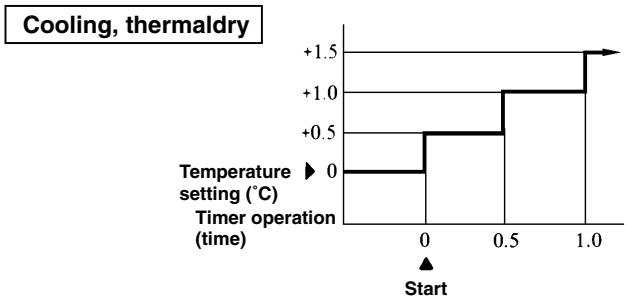
Notes (1) At 5 minutes before the set time of the turn-on timer, the operation is started regardless of the temperature of the room temperature thermister.
(2) When the dry or blow operation is selected, this function is not activated.
(However, when the automatic dry operation is selected, the function described in article (1) is operated.)

(6) Timer time setting

The turn-off timer and turn-on timer can be set for up to 12 hours in units of 1 hour.

(7) Night time turn off

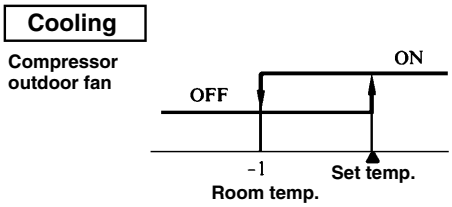
Placing the timer to this setting changes the temperature setting of the indoor set button as follows:



(8) Temperature adjustment

a) Temperature adjustment setting may be set between 18 and 30˚C.

b) The compressor and outdoor fan and turned on and off as shown below according to the temperature setting.



3) During the continuous mode, the compressor runs continuously in cooling. For thermal dry, please refer to page 50.

(9) Fan control

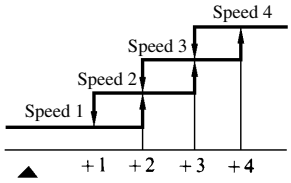
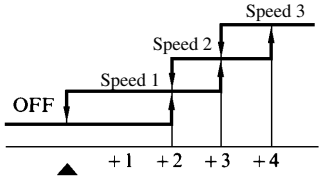
(a) Fan speed change

Mode / Fan speed knob	COOL	FAN
AUTO	See below	
LOW	Speed 1 (Speed 1)	Speed 1 (Speed 1)
MED	Speed 2 (Speed 2)	Speed 2 (Speed 2)
HIGH	Speed 3 (Speed 4)	Speed 3 (Speed 3)

Notes (1) Please refer to page 46 regarding dry operation.
(2) Figure in ( ) shows the case that the set temperature is continuing.

(b) Fan speed knob: AUTO

The indoor fan is automatically controlled in accordance with the difference between the room temperature (detected by the room temperature thermistor) and the thermostat setting as shown below.

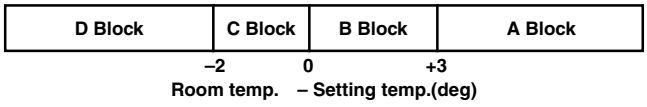
Set-ting temp \ Mode	Cooling	Fan
18~30˚C		
Continuous	Speed 4	Speed 3

Note (1) Please refer to page 46 regarding dry operation.

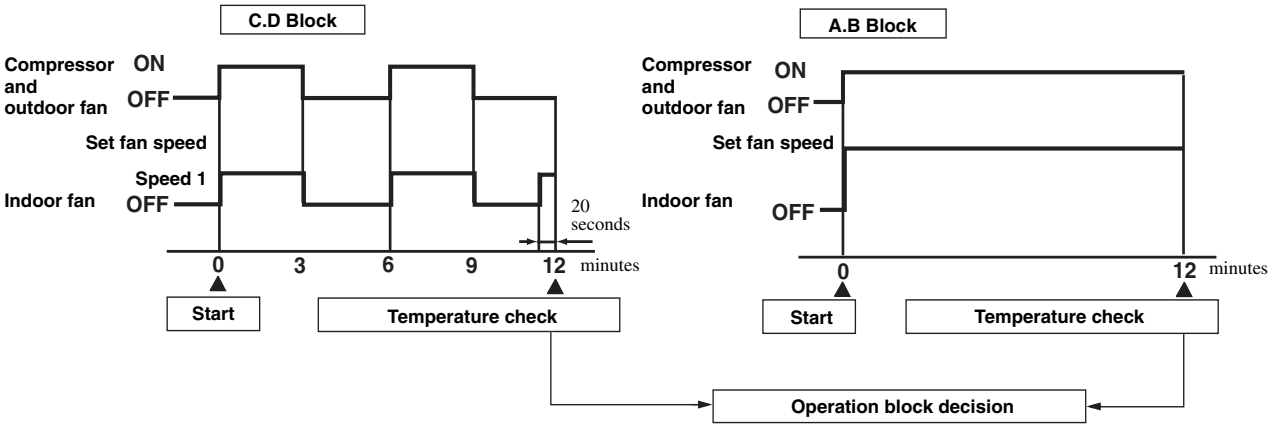
(10) DRY operation

(a) Choose the appropriate operation block area by the difference between room temperature and thermostat setting temperature as shown below.

● **Operation block area**



(b) Start up operation

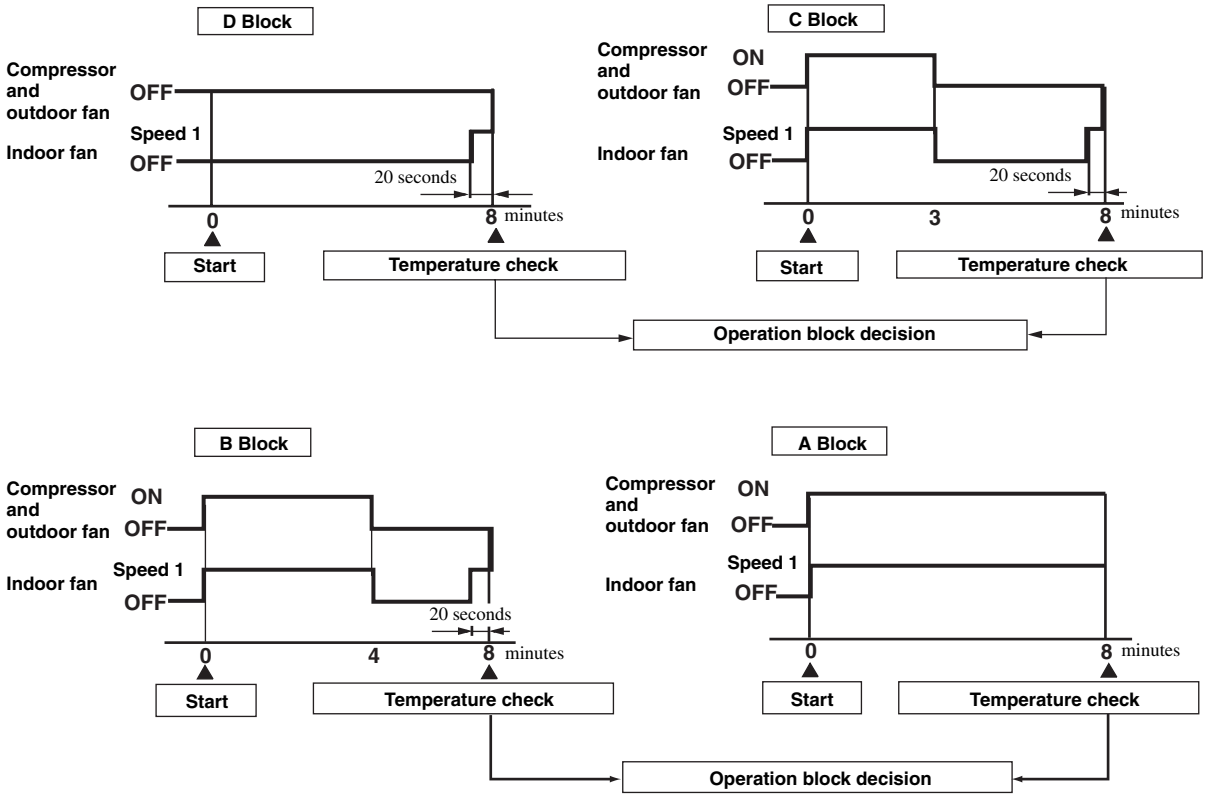


Note (1) Thermostat operation is performed in A, B Block. When compressor and indoor fan stop by thermostat operation within 12 minutes from start, temperature check is performed by operating indoor fan at speed 1 for 20 seconds before finishing 12 minutes and allowing decision of next operation block.

(c) DRY operation

After finishing start up operation described in (b) above, thermal dry operation is performed at 8 minutes intervals, according to the difference between room temperature and thermostat setting temperature as shown below.

Beside, 1 cycle of this operating time consists of 8 minutes, 7 cycle operation is performed then.



(11) Dew condensation prevention control for cooling operation

This prevents dew condensation, in the indoor unit, from occurring.

(a) **Operating condition:** when 52C is kept ON for 30 min. after the unit starts operation.

(b) **Operation content:** forces the indoor fan to change from Speed 1 to Speed 2.

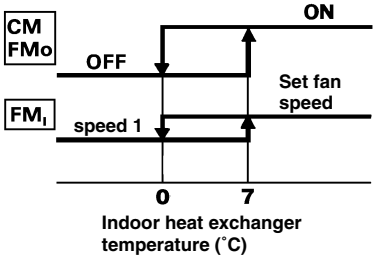
(c) **Resetting condition:** When 52C is off, or when dew condensation prevention control has been operating continuously for 30 minutes.

(12) Frost prevention for indoor heat exchanger [Preventing frost accumulation on the indoor heat exchanger]

During the Cooling or Dry operation in low room air temp. condition, evaporating temperature will decrease and consequently indoor heat exchanger sometimes gets clogged with frost (or ice).

In order to prevent this trouble, compressor is stopped by under mentioned condition by indoor heat exchanger sensor (Th_2) and timer (built into micro computer circuit) functions.

Also indoor fan is changed over to speed 1.



CM, FM_o stoppage condition

① Temperature of heat exchanger is 0˚C or lower.

② As least 10 minutes has passed since the compressor started.

CM, FM_o re-starting condition

① Temperature of heat exchanger is 7˚C or higher.

② As least 3 minutes has passed since the compressor stopped.

(13) Three-Minute Forced Operation

When the compressor begins operating the thermal operation is not effective for 3 minutes, so operation continues as is in the operation mode. (After 3 minutes has passed the thermal operation is effective.)

However, stopping the compressor via a stop signal or protection control has priority.

(14) Self diagnosis function

When something abnormal happens on the outdoor unit, indoor unit fan motor and each thermistor (heat exchanger, room temperature,) it will be indicated by flashing lamps.

(a) Abnormality of outdoor unit: When the indoor heat exchanger temperature does not fall to 25ºC or below for 40 minutes (12 type : 20 minutes) after 5 minutes have elapsed since the compressor operation start, the abnormality stop occurs. (The timer lamp flashes 5 times.)

(b) Abnormality of indoor fan motor: The indoor fan motor revolves at a rate under 300 rpm for 30 seconds or longer, the RUN lamp will flash.

(c) Abnormality of heat exchanger thermistor: RUN lamp will flashing when the input temperature of the heat exchanger thermistor measures less than –20ºC for more than 3 seconds with the airconditioner “OFF”. (will not flashing during operation)

(d) Abnormality room temperature thermistor: RUN lamp will flashing when the input temperature of the room temperature thermistor measures less than –20ºC for more than 3 seconds with the airconditioner “OFF”. (will not flashing during operation)

Note (1) If the above abnormalities happen concurrently, the lamp will flashing in the order of item number (a) through (d) above.

5 APPLICATION DATA
SAFETY PRECAUTIONS

- Please read these "Safety Precautions" first then accurately execute the installation work.
- Though the precautionary points indicated herein are divided under two headings, ⚠WARNING and ⚠CAUTION , those points which are related to the strong possibility of an installation done in error resulting in death or serious injury are listed in the ⚠WARNING section. However, there is also a possibility of serious consequences in relationship to the points listed in the ⚠CAUTION section as well. In either case, important safety related information is indicated, so by all means, properly observe all that is mentioned.
- After completing the installation, along with confirming that no abnormalities were seen from the operation tests, please explain operating methods as well as maintenance methods to the user (customer) of this equipment, based on the owner's manual.

  Moreover, ask the customer to keep this sheet together with the owner's manual.

⚠WARNING

- This system should be applied to places as households, residences and the like. Application to inferior environment such as engineering shop could cause equipment malfunction.
- Please entrust installation to either the company which sold you the equipment or to a professional contractor. Defects from improper installations can be the cause of water leakage, electric shocks and fires.
- Execute the installation accurately, based on following the installation manual. Again, improper installations can result in water leakage, electric shocks and fires.
- For installation, confirm that the installation site can sufficiently support heavy weight. When strength is insufficient, injury can result from a falling of the unit.
- For electrical work, please see that a licensed electrician executes the work while following the safety standards related to electrical equipment, and local regulations as well as the installation instructions, and that only exclusive use circuits are used.
  Insufficient power source circuit capacity and defective installment execution can be the cause of electric shocks and fires.
- Accurately connect wiring using the proper cable, and insure that the external force of the cable is not conducted to the terminal connection part, through properly securing it improper connection or securing can result in heat generation or fire.
- Take care that wiring does not rise upward, and accurately install the lid/service panel.It's improper installation can also result heat generation or fire.
- When setting up or moving the location of the air conditioner, do not mix air etc. or anything other than the designated refrigerant (R22) within the refrigeration cycle.
  Rupture and injury caused by abnormal high pressure can result from such mixing.
- Always use accessory parts and authorized parts for installation construction. Using parts not authorized by this company can result in water leakage, electric shock, fire and refrigerant leakage.
- Ventilate the work area when refrigerant leaks during the operation.
  Coming in contact with fire, refrigerant could generate toxic gas.
- Confirm after the foundation construction work that refrigerant does not leak.
  If coming in contact with fire of a fan heater, a stove or movable cooking stove, etc., refrigerant leaking in the room could generate toxic gas.

⚠CAUTION

- Execute proper grounding. Do not connect the ground wire to a gas pipe, water pipe, lightning rod or a telephone ground wire.
  Improper placement of ground wires can result in electric shock.
- The installation of an earth leakage breaker is necessary depending on the established location of the unit.
  No installing an earth leakage breaker may result in electric shock.
- Do not install the unit where there is a concern about leakage of combustible gas.
  The rare even of leaked gas collecting around the unit could result in an outbreak of fire.
- For the drain pipe, follow the installation manual to insure that it allows proper drainage and thermally insulate it to prevent condensation. Inadequate plumbing can result in water leakage and water damage to interior items.
- Install the outdoor unit so that the aluminum fins on the air heat exchanger cannot be touched. Failure to observe this may result in injury.

Cautions for installation

① The system should be applied to places as households, residences and the like.

② The equipment shall be installed in accordance with national wiring regulations.

③ The connection to the fixed wiring of the mains supply must be made via a double pole isolating switch with a contact gap of at least 3mm in each pole.

④ When the outdoor unit has a possibility of being overturned or being displaced and fall from its original installation position, the outdoor unit should be fixed in its position by use of anchor bolts or wires.

Standard accessories (Installation kit)		Q'ty
①	Installation board (Attached to the rear of the indoor unit)	1
②	Tapping screws (for installation board)	5 (12 type: 4)
③	Battery (UM-4, 1.5V)	2

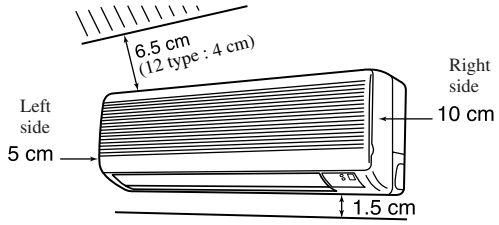
Option parts		Q'ty
a	Sealing plate	1
b	Sleeve	1
c	Inclination plate	1
d	Putty	1
e	Drain hose (extention hose)	1
f	Piping cover (for insulation of connection piping)	1

Necessary tools for the installation work	
1	Plus headed driver
2	Knife
3	Saw
4	Tape measure
5	Hammer
6	Spanner wrench (15.7 to 49.0N · m (1.6 to 5.0kgf · m))
7	Torque wrench
8	Hole core drill (65mm in diameter)
9	Gas leak detector
10	Flaring tool set
11	Vacuum pump
12	Wrench key (Hexagon) [4m/m]

5.1 Selection of location for installation

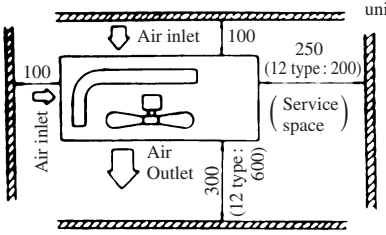
(1) Indoor unit

① Where there is no obstructions to the air flow and where the cooled air can be evenly distributed.
② A solid place where the unit or the wall will not vibrate.
③ A place where there will be enough space for servicing. (Where space mentioned below can be secured)
④ Where wiring and the piping work will be easy to conduct.
⑤ The place where receiving part is not exposed to the direct rays of the sun or the strong rays of the street lighting.



(2) Outdoor unit

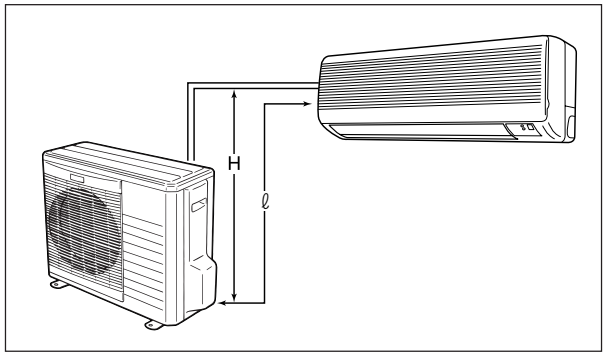
① A place where good air circulation can be obtained and where rain, snow or sunshine will not directly strike the unit.
② A place where discharged hot air or unit's operating sound will not be a nuisance to the neighborhood.
③ A place where servicing space can be secured.
④ A place where vibration will not be enlarged.



Note (1) If the wall is higher than 1.2 m or a ceiling is present, distances larger than indicated in the above table must be provided.

(3) Limitations for one way piping length and vertical height difference.

One way piping length (ℓ)		15 m
Vertical height difference (H)	Outdoor unit is lower	5 m
	Outdoor unit is higher	5 m

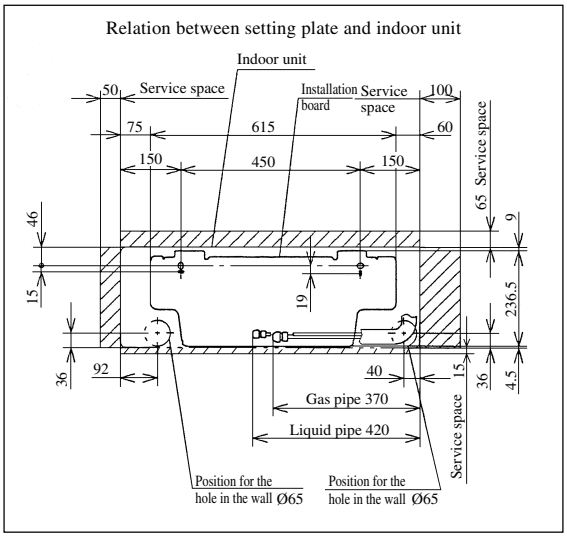


5.2 Installation of indoor unit

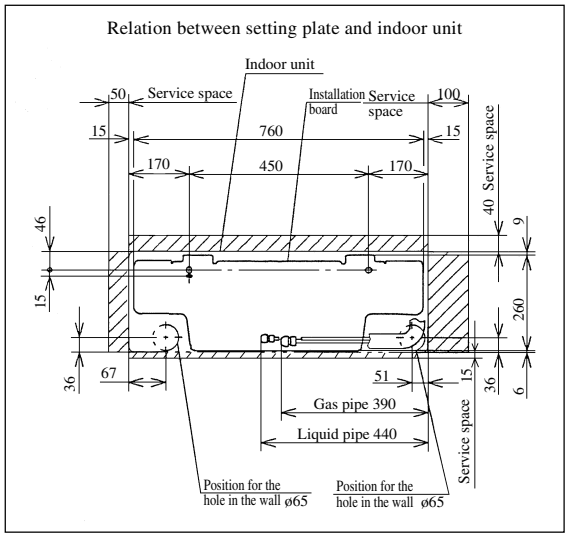
(1) Installation if installation board

① Fixing of installation board

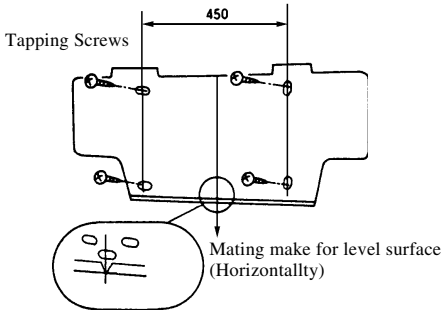
- **06, 07, 09 type**



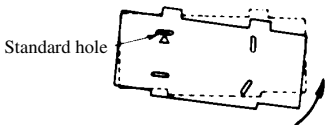
- **12 type**



Lock for the inside wall structures (Intermediate support or pillar) and fairly install the unit after level surface has been checked.

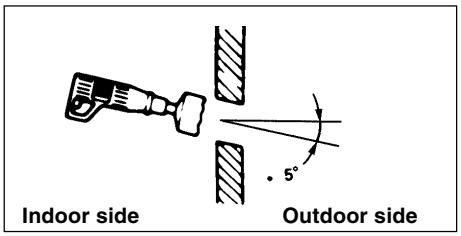


- Adjustment of the installation board in the horizontal direction is to be conducted with four screws in a temporary tightened state.
- Adjust so that board will be level by turning the board with the standard hole as the center.



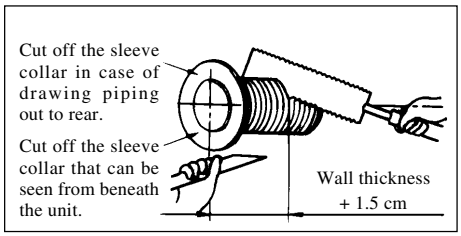
(2) Drilling of holes and fixture sleeve (Option parts)

① Drill a hole with ø65 whole core drill



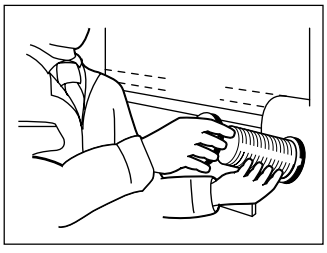
Note (1) Drill a hall with incline of 5 degree from indoor side to outdoor side.

② Adjusting sleeve length

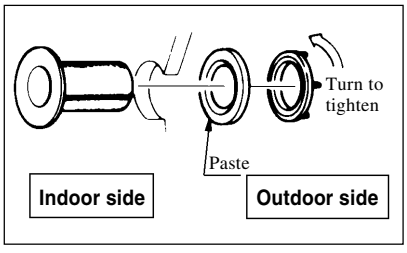


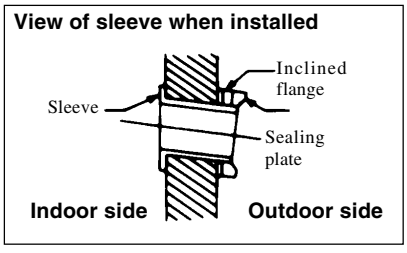
③ Install the sleeve

(Inserting sleeve)



(*Sleeve + *Inclined + *Sealing plate)





(3) Preparation of indoor unit

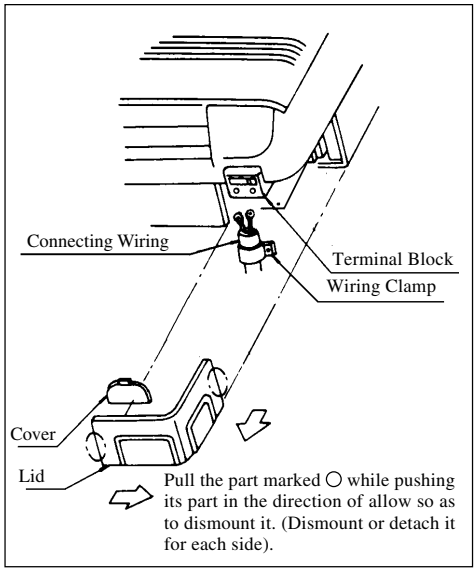
① Mounting of connecting wires

ⓐ Remove lid.

ⓑ Connect the connection wire securely to the terminal block.

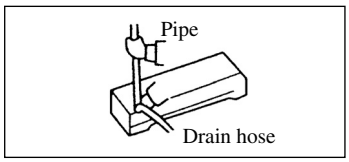
- Affix the connection wire securely to the terminal block. If the wire is not affixed completely, contact will be poor, and it is dangerous as the terminal block may heat up and catch fire.
- Take care not to confuse the terminal numbers for indoor and outdoor connections.
- Affix the connection wire using the wiring clamp.

ⓒ Attach the lid.



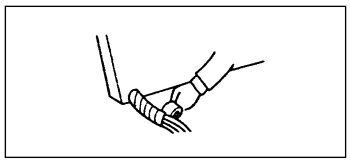
1	**Brown**	For power supply, indoor outdoor
2	**Blue**	For power supply, indoor outdoor

② Shaping the pipe



- Hold the bottom of the pipe and change its direction before stretching it and shaping it.

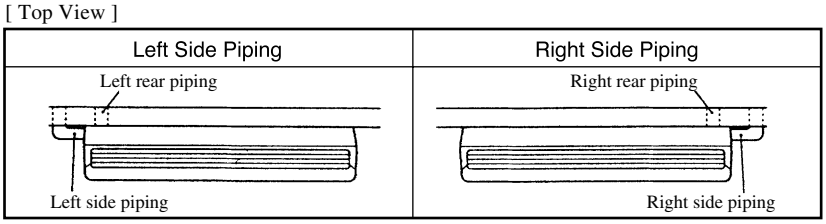
③ Taping of the exterior

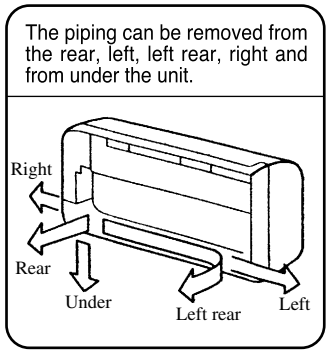


- Tape only the portion that runs through the wall. Always tape the crossover wires with the pipe.

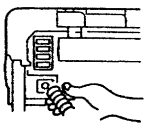
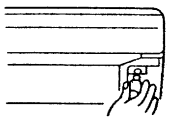
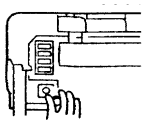
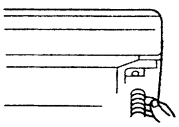
④ Cautions when piping from the left and the rear center of the unit

[Top View]

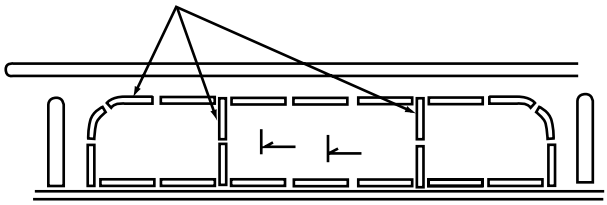




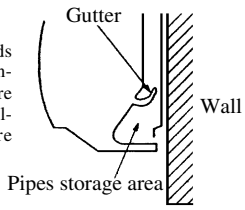
[Procedure for exchanging the drain hose.]

1. Remove the drain hose.	2. Remove the drain cap.	3. Insert the drain cap.	4. Connect the drain hose.
			
• Loosen and remove the spring-type clamp.	• Remove with your hand or a pair of pliers.	• Use a hexagonal wrench to correctly insert the drain cap which was removed in 2. Caution: Be careful because if the cap is not inserted property, water leak may occur.	• Loosen the spring-type clamp and securely insert the drain hose. Caution: Be careful because if the cap is not inserted properly, water leak may occur.

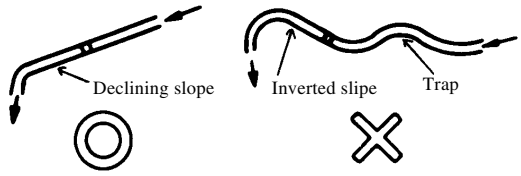
- When conducting the central rear piping, use a nipper to cut out knock-out holes in the installation board.



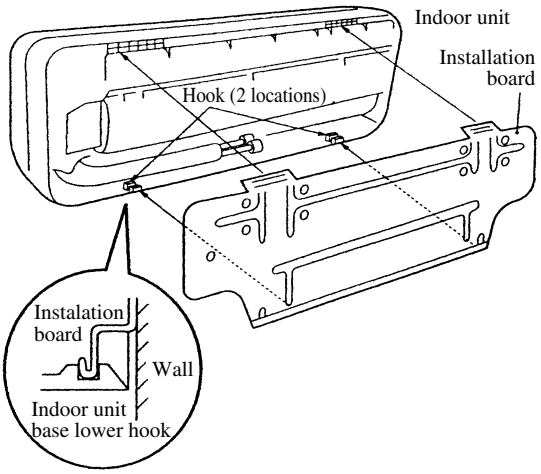
- Do not place the power supply cords above the gutter, because the air conditioner is structured in a way where condensation on the back side is collected in to the drain pan before drainage.

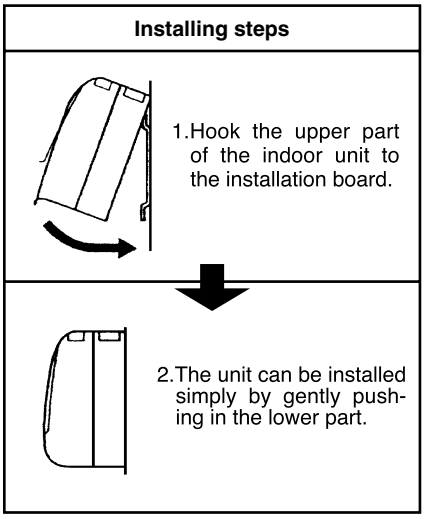


- Do not make traps in the drain hose line.



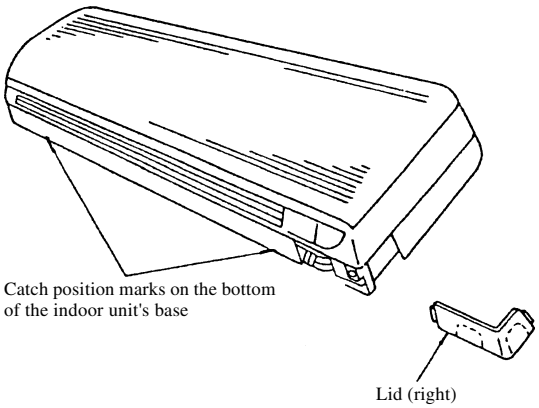
⑤ Securing the indoor unit to the installation board





ⓐ To remove the indoor unit from the mounting plate.

- Remove the left and right lids.
- Use your fingers to pull down the catches (left and right) at the bottom of the indoor unit's base, indicated by the catch position marks. (The catches on the indoor unit's base are released from the mounting plate.)

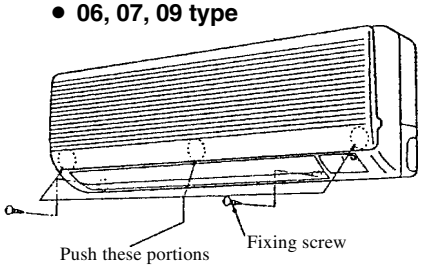


(4) Removal and installation of the front panel

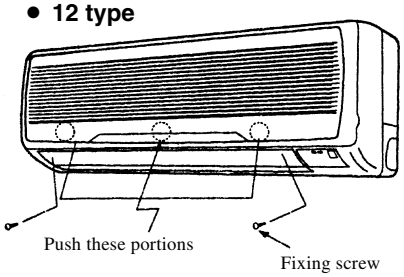
① Removal
- Remove fixing screws (2 places).
- Lift the lower part of panel toward you, then remove the panel by pushing up its upper portion.

② Installation
- Remove the air filter without fall.
- Put the front panel on the main unit.
- Push the portion shown by ◌ in the below illustration rearward.
- Tighten fixing screws (2 places).
- Set the air filter.

● **06, 07, 09 type**



● **12 type**



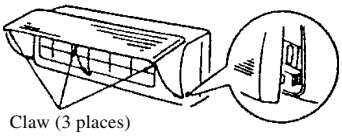
(5) Open/close and detachment/attachment of suction grille

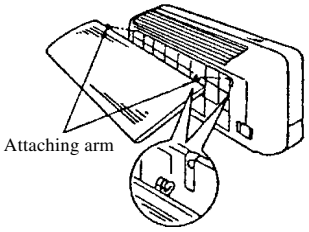
① To open, pull the grille at both ends of lower part and release latches, then pull up the grille until you feel resistance. (The suction grille stops at approx. 60˚ open position.)

② To close, hold the grille at both ends of lower part to lower downward and push it slightly until the latch works, then push the center portion slightly.

③ To remove, pull up the grille to the position shown in below illustration and pull it toward you.

④ To install, insert the suction grille arm into the slot on the front panel from the position shown in below illustration, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works and further push the center portion slightly.





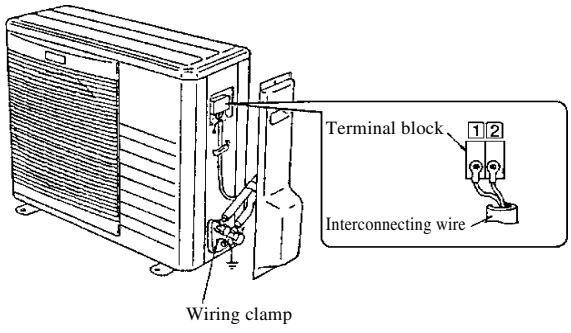
5.3 Installation of outdoor unit

① Make sure that the unit is stable in installation. Fix the unit to stable base.

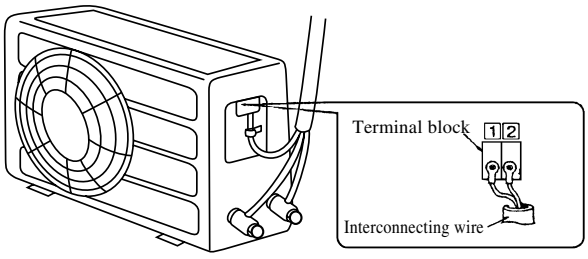
② Perfrom wiring, making wire terminal numbers conform to terminal numbers of indoor unit terminal block.

1	**Brown**	For power supply, indoor outdoor
2	**Blue**	For power supply, indoor outdoor

● **06, 07, 09 type**



● **12 type**

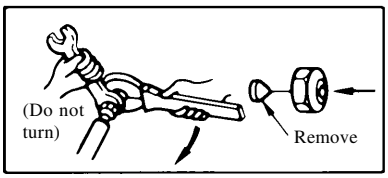


5.4 Connection of refrigerant pipings

(1) Preparation

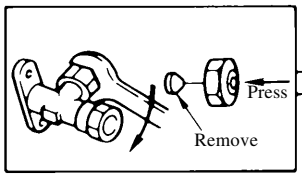
Keep the openings of the pipes covered with tapes etc. to prevent dust, sand, etc. from entering them.

① Indoor unit side

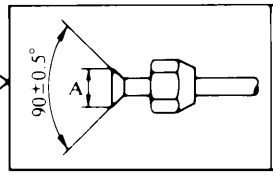


- Remove the flared nuts. (on both liquid and gas sides)

② Outdoor unit side



- Remove the flared nuts. (on both liquid and gas sides)



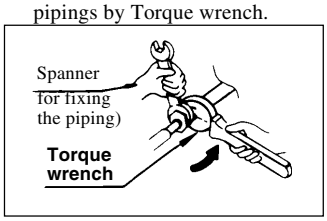
Dimension A	
Liquid side	
(f6.35):	9-9.5 dia
Gas side	
(f9.52):	13.2-14 dia
(f12.7):	16.2-17 dia

- Install the removed flared nuts to the pipes to be connected, then flare the pipes.

(2) Connection of refrigerant piping

① Indoor unit side

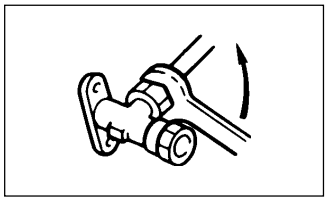
- Connect firmly gas and liquid side pipings by Torque wrench.



- Specified torquing value:
  Liquid side (ø6.35) : 15.7~19.6N·m (1.6~2kgf·m)
  Gas side (ø9.52) : 29.4~39.2N·m (3.0~4.0kgf·m)
  (ø12.7) : 39.2~49N·m (4.0~5.0kgf·m)

② Outdoor unit side

- Connect firmly gas and liquid side pipings by Torque wrench.

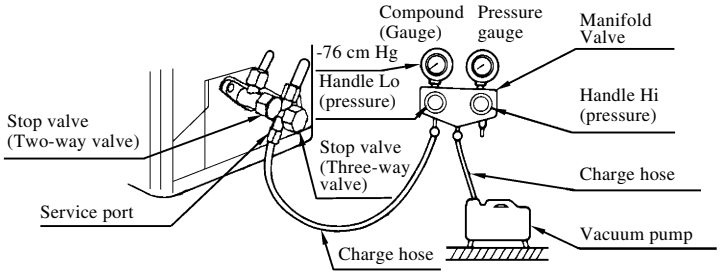


- Specified torquing value:
  Liquid side (ø6.35) : 15.7~19.6N·m (1.6~2kgf·m)
  Gas side (ø9.52) : 29.4~39.2N·m (3.0~4.0kgf·m)
  (ø12.7) : 39.2~49N·m (4.0~5.0kgf·m)
- Use one more spanner to fix the valve.

- Always use a Torque wrench and back up spanner to tighten the flare nut.

(3) Air purge

① Tighten all flare nuts in the pipings both indoor and outside wall so as not to cause leak.
② Connect service valve, charge hose, manifold valve and vacuum pump as is illustrated below.
③ Open manifold valve handle Lo to its full width, and perform vacuum or evacuation.
Continue the vacuum or evacuation operation for 15 minutes or more and check to see that the vacuum gauge reads – 0.1 MPa (– 76 cmHg).
④ After completing vacuum operation, fully open service valve (Both gas and liquid sides) with hexagon headed wrench.
⑤ Check for possible leakage of gas in the connection parts of both indoor and outdoor.



♦ Additional refrigerant charge

- **06, 07, 09 type**

When refrigerant piping exceeds 10m conduct additional refrigerant charge after refrigerant sweeping.
Additional charge amount per meter = 20g/m

[Example]
How much amount of additional charge for 15m piping?
(15 – 10)m × 20g/m = 100g | 100g for additional charge |

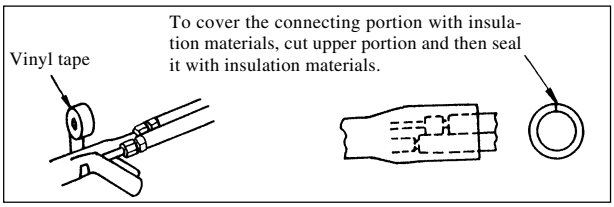
- **12 type**

When refrigerant piping exceeds 7.5m conduct additional refrigerant charge after refrigerant sweeping.
7.5m over 10m:Additional charge amount per meter = 10g/m
10m over 15m:Additional charge amount per meter=30g/m

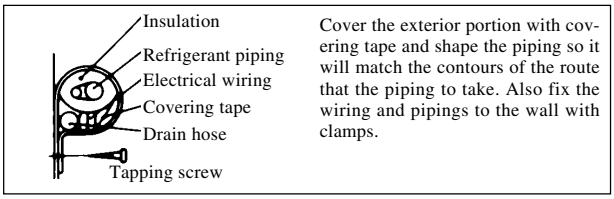
[Example]
How much amount of additional charge for 15m piping?
(10 – 7.5)m × 10g/m+(15-10)m×30g/m=175g | 175g for additional charge |

(4) Insulation of connecting portion

① Cover the connection portion of the refrigerant piping with the pipe cover and seal them.
If neglecting to do so, moisture occurs on the piping and water will drip out.



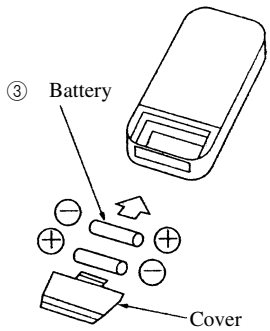
② Finishing and fixing
ⓐ Tie up the piping with wrapping tape, and shape it so that it conforms to which the pipe is attached.
ⓑ Fix them with clamps as right figure.



5.5 Installation of remote control switch

(1) Mounting method of battery

- Uncover the remote control switch, and mount the batteries (UM-4 × 2 pieces) in the body regularly.
(Fit the poles with the indication marks, ⊕ & ⊖ without fail)



5.6 Earthing work

- Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
- The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done.
City water pipe, Town gas pipe, TV antenna, lightning conductor, telephone line, etc.

5.7 Trial run and operation

① Conduct trial run after confirming that there is no gas leaks.

② When conducting trial run set the remote controller thermostat to continuous operation position. However when the power source is cut off or when the unit's operation switch is turned off or was turned to fan operation position, the unit will not go into operation in order to protect the compressor.

③ Insert in electric plug into the electric outlet and make sure that it is not loose.
ⓐ When there is something wrong with the electric outlet and if the insertion of the electric plug is insufficient, there may occur a burn out.
ⓑ It is very important to be careful of above when pulgging in the unit to an already furnished electrical outlet.

④ Explain to the customer on the correct usage of the air conditioner in simple layman's terms.

⑤ Make sure that drain flows properly.

⑥ Standard operation data.

220/240V

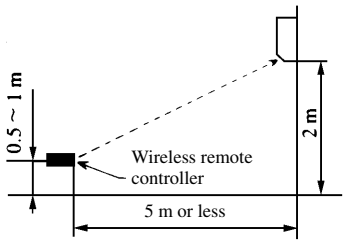
Item \ Model	SRK06CC-1, 06CC-4	SRK07CC-1, 07CC-4	SRK09CC-1, 09CC-4	SRK12CC-1, 12CC-4
Low pressure MPa (kgf/cm²)	0.4 ~ 0.5 (4 ~ 5)	0.4 ~ 0.5 (4 ~ 5)	0.4 ~ 0.5 (4 ~ 5)	0.4 ~ 0.5 (4 ~ 5)
Temp. difference between return air and supply air (˚C)	12 – 17	12 – 17	11 – 16	13 – 17
Running current (A)	4.3/4.6	4.3/4.7	4.4/4.8	6.4/6.8

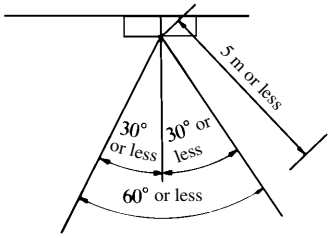
Note (1) The data are measured at following conditions
Ambient air temperature
Indoor side: 27°C DB, 19°C WB
Outdoor side: 35°C DB, 24°C WB

5.8 Precautions for wireless remote controller installation and operation

(1) Wireless remote controller covers the following distances:

(a) When operating facing the air-conditioner:

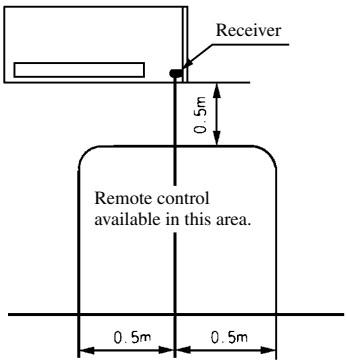




Notes (1) The remote controller is correctly facing the sensing element of the air conditioner when being manipulated.
(2) The typical coverage is indicated (in the left illustration). It may be more or less depending on the installation.
(3) The coverage may be less or even nil. If the sensing element is exposed to strong light, such as direct sunlight, illumination, etc., or dust is deposited on it or it is used behind a curtain, etc.

(b) When manipulating the remote controller mounted on a wall:

Make sure that it works normally (i.e., transmission/reception signal is audible) before mounting.

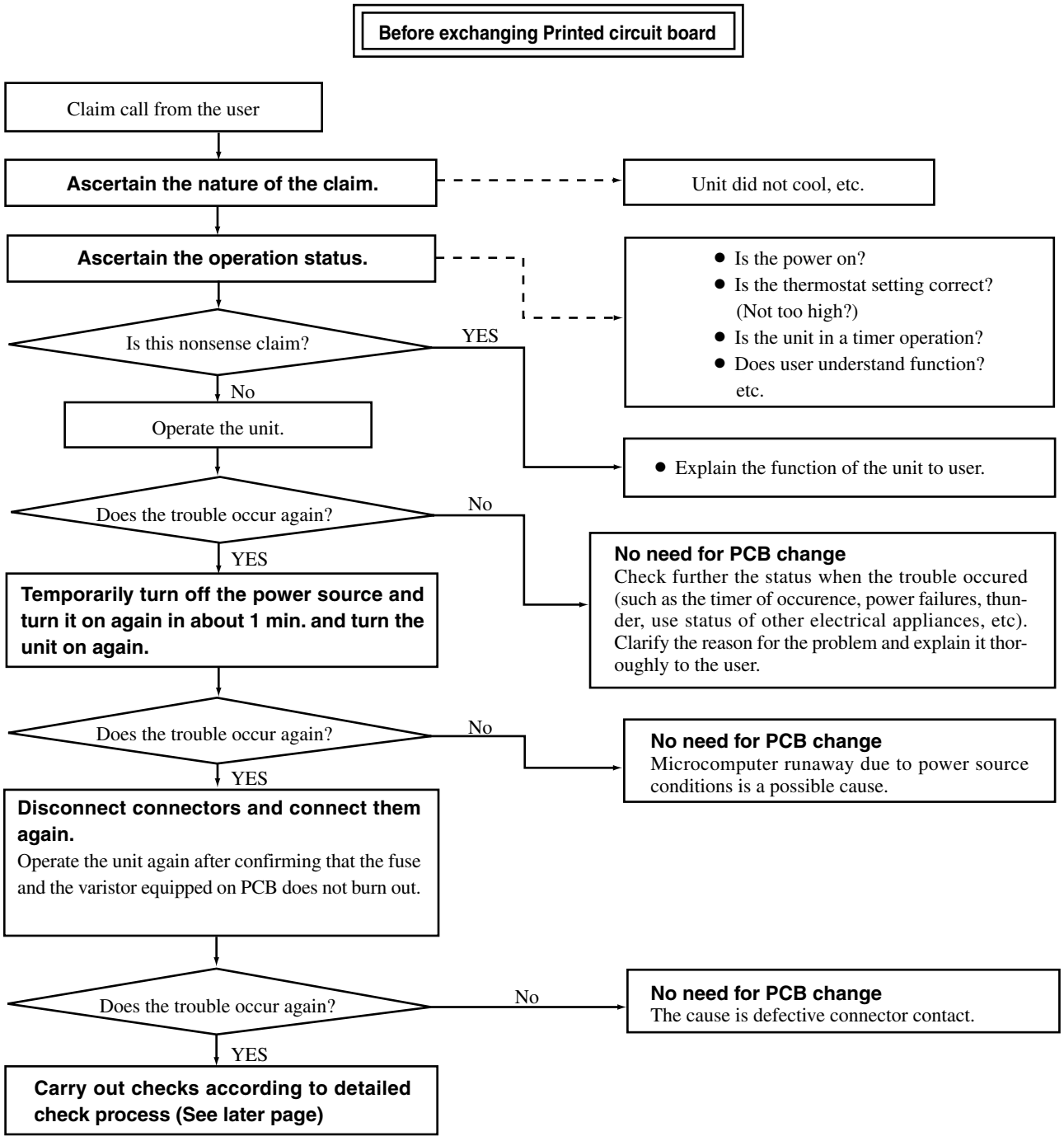


6 MAINTENANCE DATA

6.1 Trouble shooting

(1) Trouble shooting to be performed prior to exchanging PCB, (Printed circuit board) [Common to all models]

All the models described in this chapter are controlled by a microcomputer. When providing maintenance service to customers it is necessary to understand the function controlled by a micro computer thoroughly, so as not to mistakenly identify correct operations as mis-operations. It is also necessary to perform the following simple checks before conducting detailed checks or exchanging printed circuit board.

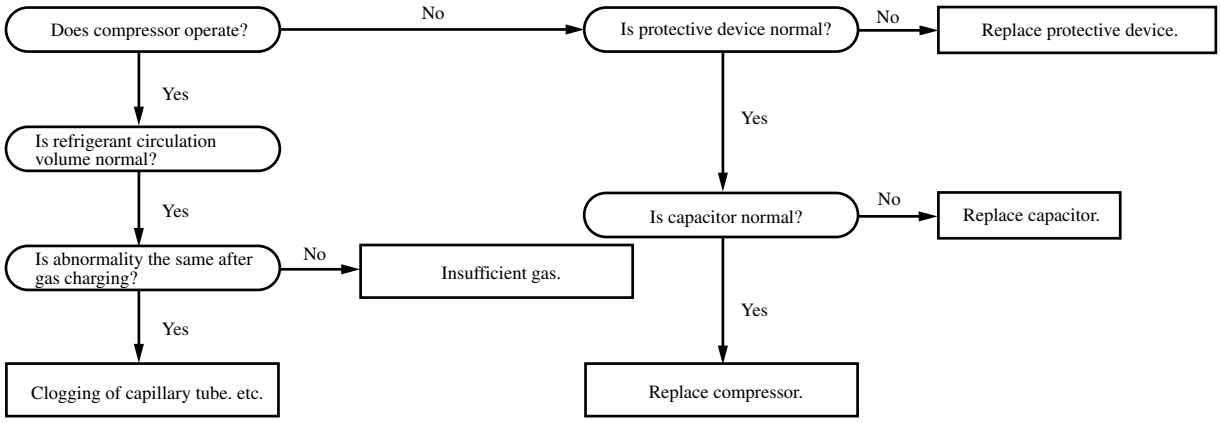


(2) Indication of Self Diagnosis (Indoor unit)

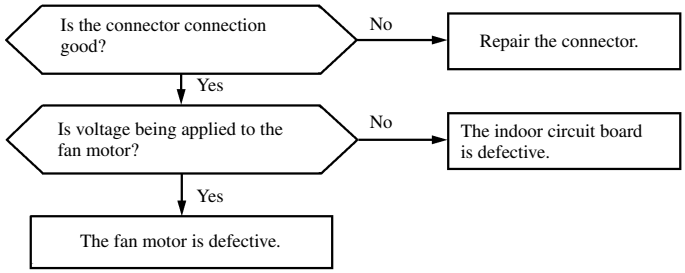
		Connect of Defect	Place of defect
TIMER lamp is lights continuously.	RUN lamp is flashing. (1 Time flash.)	Abnormality of heat exchanger thermistor.	● Disconnection of heat exchanger thermistor.
	RUN lamp is flashing. (2 Time flash.)	Abnormality of room temperature thermistor.	● Disconnection of room temperature thermistor.
	RUN lamp is flashing. (6 Time flash.)	Abnormality of indoor fan motor.	● Fan motor is defective. ● Printed circuit board is defective.
RUN lamp is lights continuously.	TIMER lamp is flashing. (5 Time flash.)	Abnormality of outdoor unit.	● Compressor is defective. ● Capacitor is defective. ● Gas is short.

(3) Troubleshooting

Abnormality of outdoor unit [Compressor malfunction of insufficient gas (refrigerant)]



Abnormality of indoor fan motor (Fan motor defective, printed circuit board defective)



Abnormality of thermistor Disconnection of thermistor and defective connection of connector

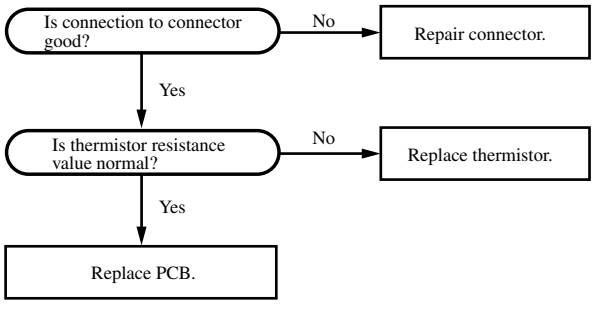
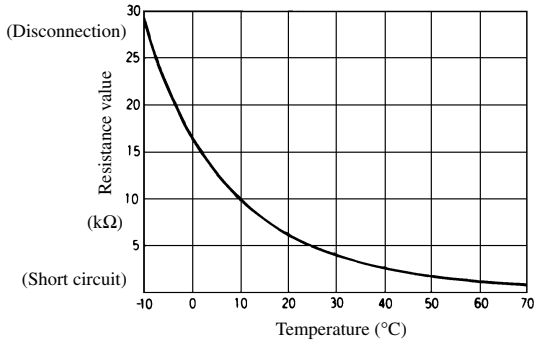
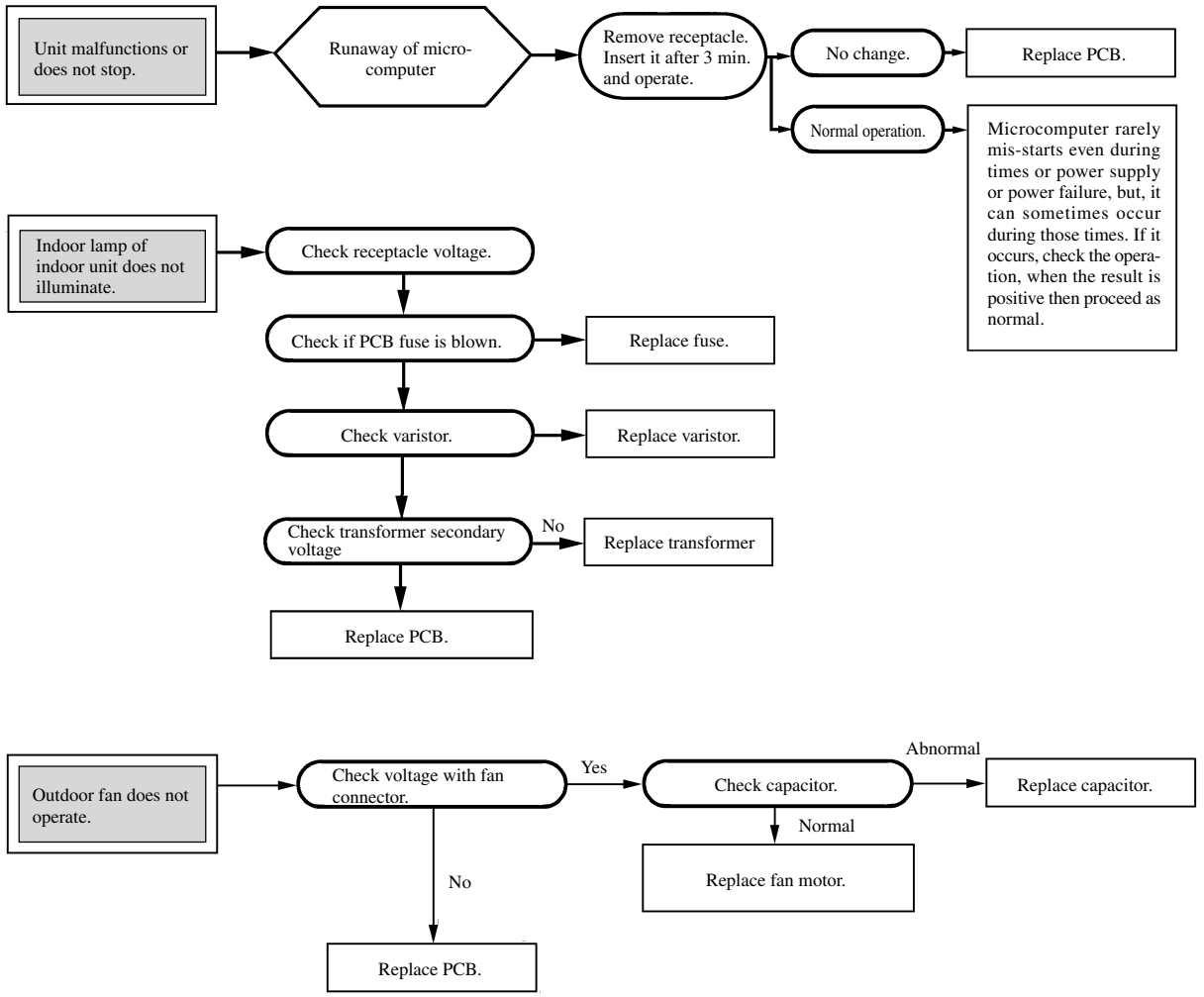


Chart for thermistor temperature resistance characteristics



(4) Trouble Diagnostic Procedures

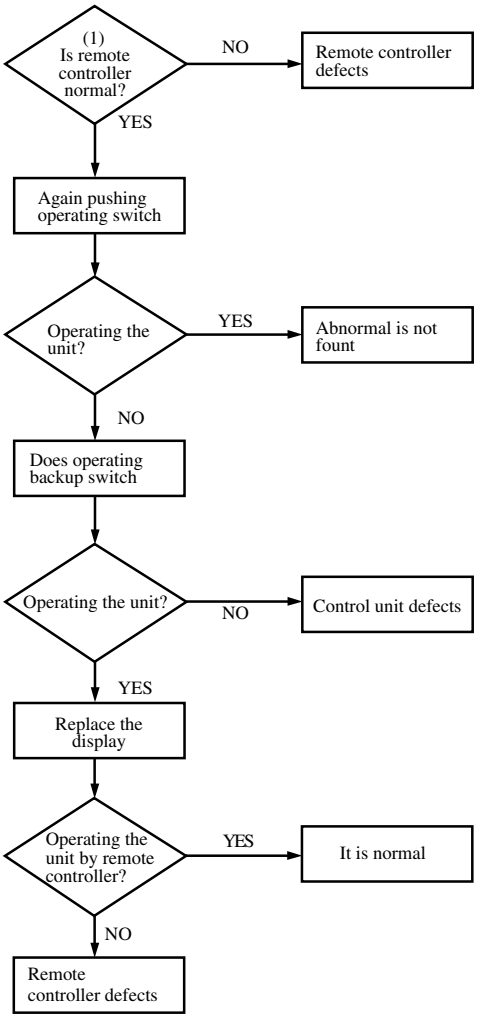


(5) Trouble shooting chart for the room temperature thermistor (Th_1), heat exchanger thermistor (Th_2)

Unit	Thermistor	Operation	Function	
			Short circuit	Broken connection
Indoor unit	**Room temperature thermistor (1) (Th_1) except for "continuous" thermal setting.**	**Cooling**	**Continuous Cooling operation** ● Cannot be turned ON/OFF by thermostat ● When FM_I is on. "AUTO" is continuously Hi	**Cooling will not operate** ● FM_I : continuous operation ● CM,FM_O: stopped
	Heat exchanger thermistor (Th_2)	**Cooling**	Cooling will not operate.	**Cooling will operate** ● Heat exchanger frost preventer begins to operate ● Cools alternately for 10 minutes, stopping for 3 minutes.

Note (1) When the room temperature thermistor (Th_1) will not operate normally. Cooling operation may be run continuously by putting the thermostat setting on "CONTINUOUS"

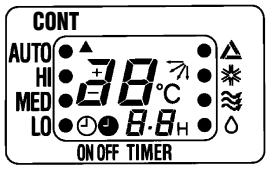
(6) How to make sure of remote controller



Note (1) How to check the remote controller

(a) Press the reset switch of remote controller.

(b) If the almost normal if entire display of remote controller is shown after 0 indication.



6.2 Servicing

(1) Evacuation

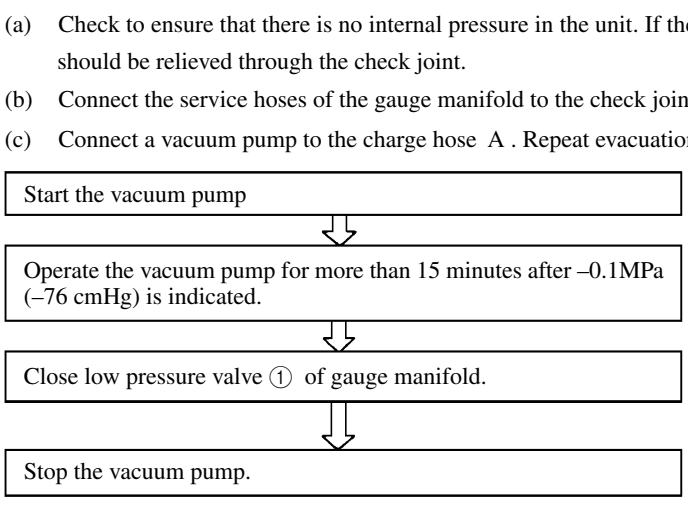
The evacuation is an procedure to purge impurities ..... noncondensable gas, air, moisture from the refrigerant equipment by using a vacuum pump. Since the refrigerant R22 is very insoluble in water, even a small amount of moisture left in the refrigerant equipment will freeze, causing what is called water clogging.

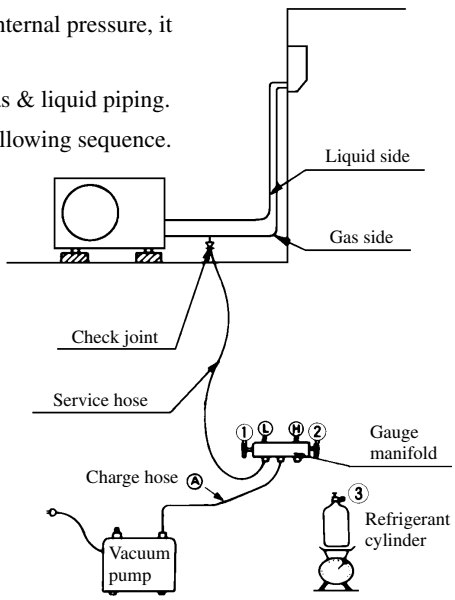
- **Evacuation procedure**

(a) Check to ensure that there is no internal pressure in the unit. If there is an internal pressure, it should be relieved through the check joint.

(b) Connect the service hoses of the gauge manifold to the check joint of the gas & liquid piping.

(c) Connect a vacuum pump to the charge hose A . Repeat evacuation in the following sequence.





Notes (1) Do not use the refrigerant pressure to expel air.
(2) Do not use the compressor for evacuation.
(3) Do not operate the compressor in the vacuum condition.

(2) Refrigerant charge

(a) Discharge refrigerant entirely from the unit and evacuate the unit.
Note: Addition of refrigerant without evacuation is unreasonable, because it will result in low charge or overcharge.

(b) Keep the gauge manifold and connect a refrigerant cylinder to the unit.

(c) Record the weight of the refrigerant cylinder on the balance. This is necessary for making sure of the charged refrigerant amount.

(d) Purge air from the charge hose A .
Firstly loose the connecting portion of the charge hose A at the gauge manihold side and open the valve ③ for a few seconds, and then immediately retighten it after observing that gas is blow out from the loosened portion.

(e) Open the valve ① and ③ after discharging air from the charge hose A , then the gas refrigerant begins flowing from the cylinder into the unit. Be sure to erect the refrigerant cylinder upright to let gas refrigerant flow into the unit.

(f) When refrigerant has been charged into the system to some extent, refrigerant flow becomes stagnant, when that happens, start the compressor in cooling cycle until the unit is filled with gas to the specified weight.

(g) Making sure of the refrigerant amount, close the valve ③.

(h) Disconnect the charge hose from the unit. Cover the valve ports of the refrigerant piping with caps and tighten them securely.

(i) Check for gas leakage applying a gas leak detector along the piping line.

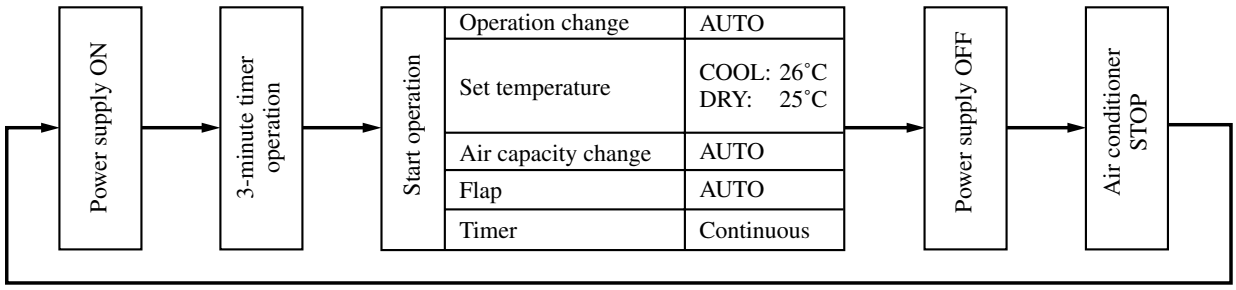
(j) Start the air conditioner and make sure of its operating condition ..... high side and low side pressures and temperature difference between suction air and outlet air.

6.3 Power supply remote operation

When the remote part on indoor unit PCB is modified, the air conditioner is turned ON-OFF by power supply ON-OFF operation without using remote control switch.

After the power supply remote operation, the operation contents can be modified by the remote controller.

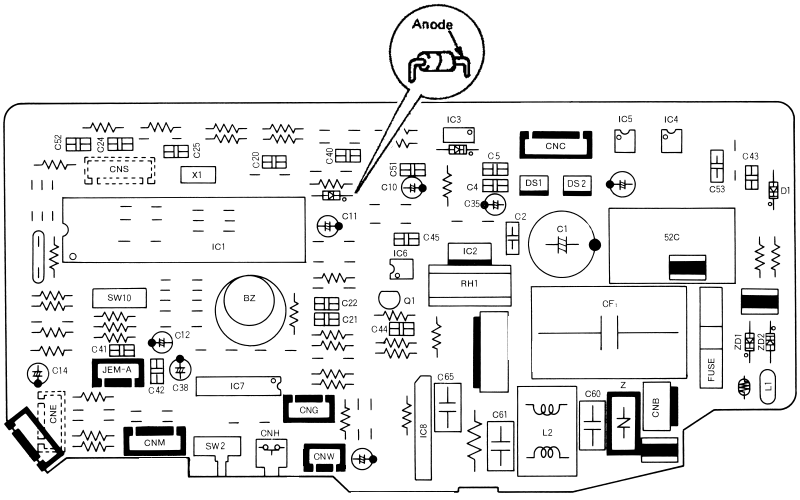
(1) Operation contents



(2) Modification method

Solder the high-speed switching diode (manufacturer: Matsushita, Manufacture type No.: MA165) to “Remote” part on the PCB in the direction as shown in the diagram below.

This diagram shows SRK06CC-1 and although the other units have different layout on the PCB, their concepts are same.



MODELS SRK50CA SRK56CA SRK56CA-4

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1 GENERAL INFORMATION

1.1 Specific features

The "Mitsubishi Daiya" room air-conditioner: **SRK series** are of split and wall mounted type and the unit consists of indoor unit and outdoor unit with refrigerant precharged in factory. The indoor unit is composed of room air cooling equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(1) Remote control flap

The flap can be automatically controlled by operating wireless remote control.

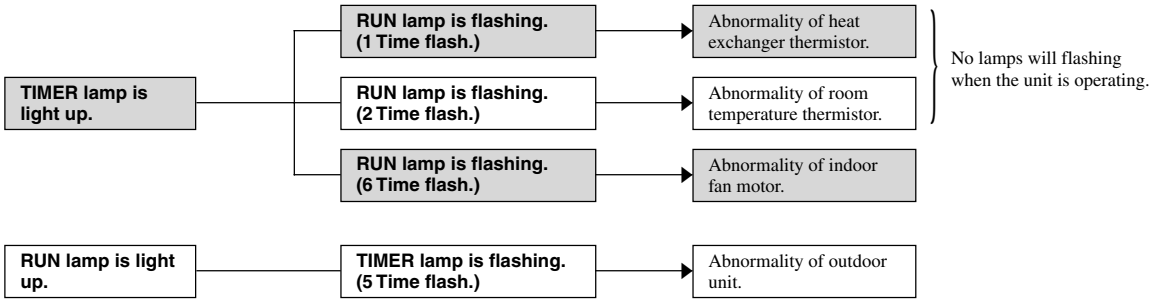
- AUTO (Natural flow) : Flap operation is automatically control.
- Swing : This will swing the flap up and down.
- Memory flap : Once the flap position is set, the unit memorizes the position and continues to operate at the same position from the next time.

(2) Automatic Operation

When the remote control switch is set on "auto", it will either automatically decide operation mode such as cooling, and thermal dry, or operate in the operation mode before it has been turned to automatic control.

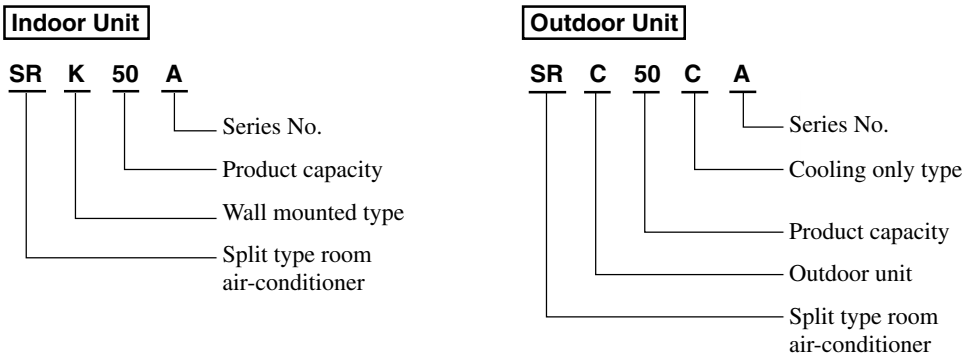
(3) Self diagnosis Function

We are constantly trying to do better service to our customers by installing such judges that show abnormality of operation as follows.



1.2 How to read the model name

Example :



2 SELECTION DATA

2.1 Specifications

Model SRK50A (Indoor unit)
SRC50CA (Outdoor unit)

Item			Model	SRK50A	SRC50CA
Cooling capacity(1)			W	4500	
Power source				1 Phase, 220/230/240V, 50 Hz	
Operation data(1)	Cooling input		kW	1.79	
	Running current (Cooling)		A	8.4/8.0/7.7	
	Inrush current		A	39/41/42	
	COP (In cooling)			2.51	
	Sound rating (Power level)		dB	58	65
Exterior dimensions Height × Width × Depth			mm	298 × 798 × 203	640 × 850 × 290
Color				Noble white	Stucco white
Net weight			kg	10	44
Refrigerant equipment Compressor types & Q'ty				–	RM5523GNE4 (Rotary type) × 1
	Motor		kW	–	1.7
	Starting method			–	Line starting
Heat exchanger				Louver fins & grooved tubing	
Refrigerant control				Capillary tubes	
Refrigerant(3)			kg	R22 1.4	
Refrigerant oil			ℓ	0.7 (BARREL FREEZE 32SAM)	
Air handling equipment Fan type & Q'ty				Tangential fan × 1	Propeller fan × 1
	Motor		W	23	35
Air flow (at High)			CMM	11	39
Air filter, Q'ty				Polypropylene net (washable) × 2	–
Shock & vibration absorber				–	Cushion rubber (for compressor)
Electric heater				–	–
Operation control Operation switch				Wireless-Remote controller	–
Room temperature control				MC. Thermostat	–
Pilot lamp				RUN (Green), TIMER (Yellow), ECONO (Orange), HI POWER (Green)	–
Safety equipment				–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D		mm (in)	Liquid line: ϕ6.35 (1/4") Gas line: ϕ12.7 (1/2")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.5m Gas line : 0.43m	–
	Insulation			Necessary (Both sides)	
Drain hose				Connectable	
Power source cord				3m (3 cores with Earth)	
Connection wiring	Size × Core number			1.5mm² × 3 cores (Including earth cable)	
	Connecting method			Terminal block (Screw fixing type)	
Accessories (included)				Mounting kit	
Optional parts				–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220V, 230V or 240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 7 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, (When it is 7 to 15 m, add 20 g refrigerant per meter.)

(4) When the unit is operated in cooling or dehumidification mode at the outside air temperature of 1°C and less, there is a possibility that water leakage occurs at the indoor unit.

Model SRK56A, -4 (Indoor unit)
SRC56CA, -4 (Outdoor unit)

Item			Model	SRK56A, -4	SRC56CA, -4
	Cooling capacity(1)		W	5000	
	Power source			1 Phase, 220/230/240V, 50 Hz	
Operation data(1)	Cooling input		kW	2.08	
	Running current (Cooling)		A	9.7/9.3/8.9	
	Inrush current		A	44/46/48	
	COP (In cooling)			2.40	
	Sound rating (Power level)		dB	59	68
	Exterior dimensions Height × Width × Depth		mm	298 × 798 × 203	640 × 850 × 290
	Color			Noble white	Stucco white
	Net weight		kg	10	44
	Refrigerant equipment Compressor types & Q'ty			–	RM5526GNE4 (Rotary type) × 1
	Motor		kW	–	1.9
	Starting method			–	Line starting
	Heat exchanger			Louver fins & grooved tubing	
	Refrigerant control			Capillary tubes	
	Refrigerant(3)		kg	R22 1.45	
	Refrigerant oil		ℓ	0.7 (BARREL FREEZE 32SAM)	
	Air handling equipment Fan type & Q'ty			Tangential fan × 1	Propeller fan × 1
	Motor		W	23	35
	Air flow (at High)		CMM	11	39
	Air filter, Q'ty			Polypropylene net (washable) × 2	–
	Shock & vibration absorber			–	Cushion rubber (for compressor)
	Electric heater			–	–
	Operation control Operation switch			Wireless-Remote controller	–
	Room temperature control			MC. Thermostat	–
	Pilot lamp			RUN (Green), TIMER (Yellow), ECONO (Orange), HI POWER (Green)	–
	Safety equipment			–	Dome mounted protector (for compressor) Internal thermostat (for fan motor)
Refrigerant piping	O.D		mm (in)	Liquid line: ϕ6.35 (1/4") Gas line: ϕ12.7 (1/2")	
	Connecting method			Flare connecting	
	Attached length of piping			Liquid line: 0.5m Gas line : 0.43m	–
	Insulation			Necessary (Both sides)	
	Drain hose			Connectable	
	Power source cord			3m (3 cores with Earth)	
	Connection wiring	Size × Core number		1.5mm² × 3 cores (Including earth cable)	
		Connecting method		Terminal block (Screw fixing type)	
	Accessories (included)			Mounting kit	
	Optional parts			–	

Notes (1) The data are measured at the following conditions.

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612

(2) The operation data are applied to the 220V, 230V or 240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 7 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, (When it is 7 to 15 m, add 20 g refrigerant per meter.)

(4) When the unit is operated in cooling or dehumidification mode at the outside air temperature of 1°C and less, there is a possibility that water leakage occurs at the indoor unit.

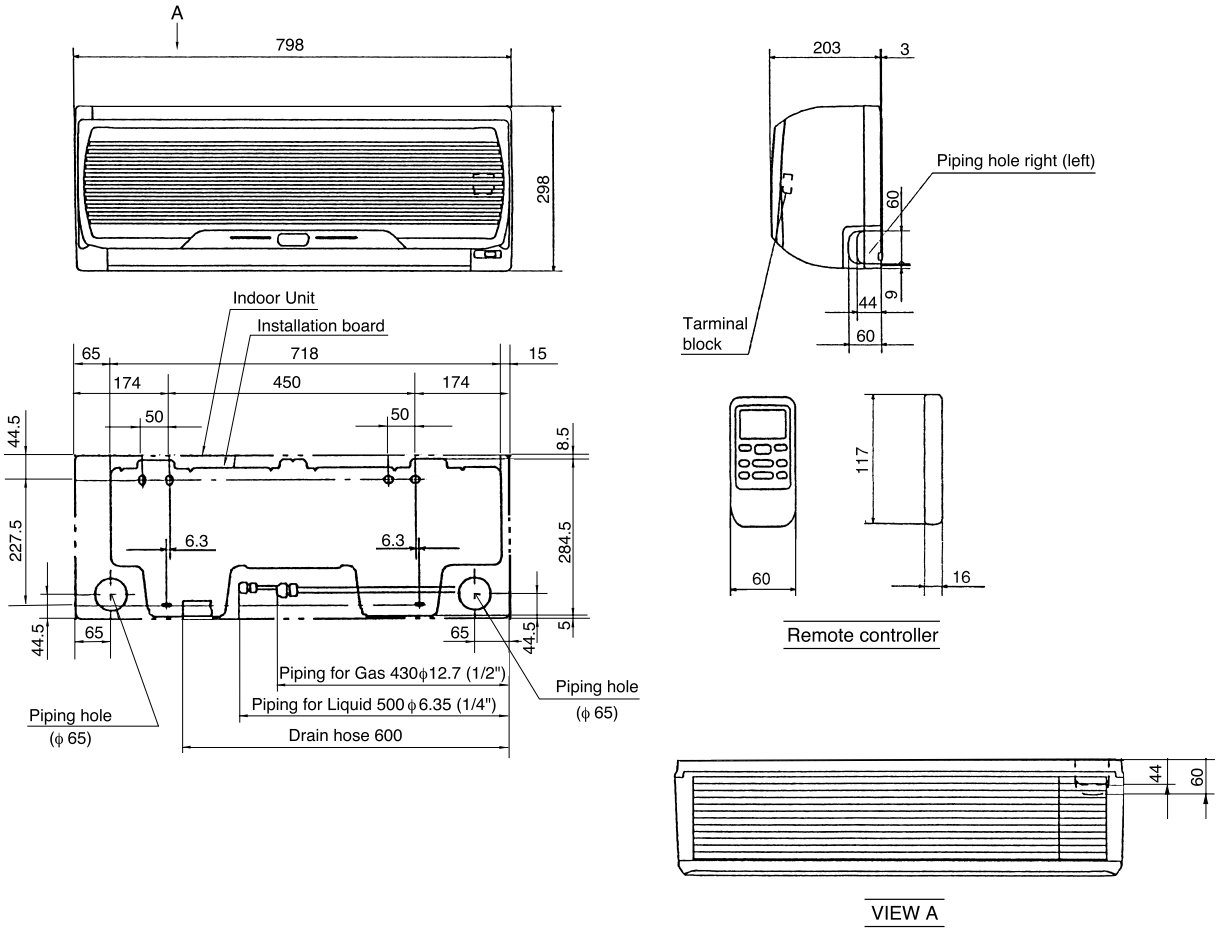
2.2 Range of usage & limitations

Item \ Models	All models
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart
Outdoor air temperature (Upper, lower limits)	
Refrigerant line (one way) length	Max. 15m
Vertical height difference between outdoor unit and indoor unit	Max. 5m (Outdoor unit is higher) Max. 5m (Outdoor unit is lower)
Power source voltage	Rating ± 10%
Voltage at starting	Min. 85% of rating
Frequency of ON-OFF cycle	Max. 10 times/h
ON and OFF interval	Max. 3 minutes

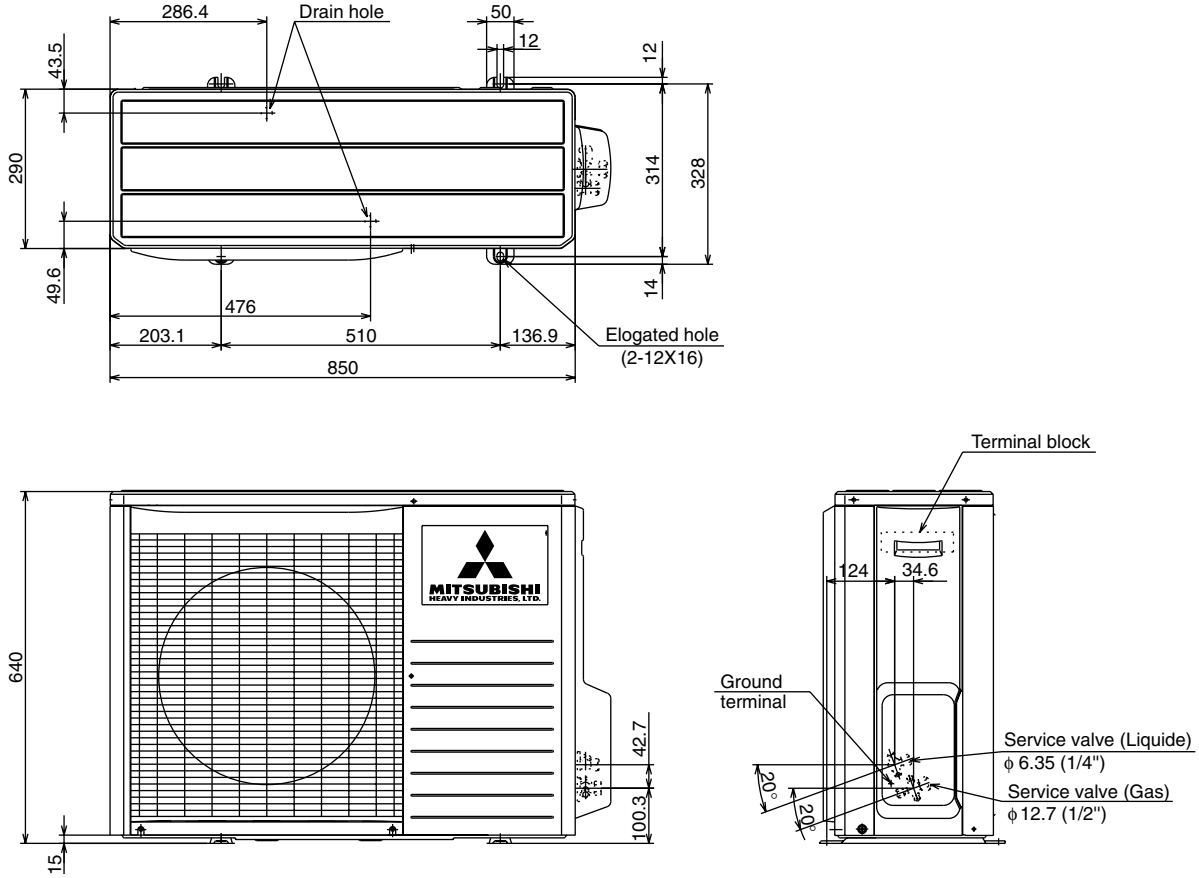
2.3 Exterior dimensions

(1) Indoor unit
Models SRK50A, 56A, 56A-4

Unit : mm

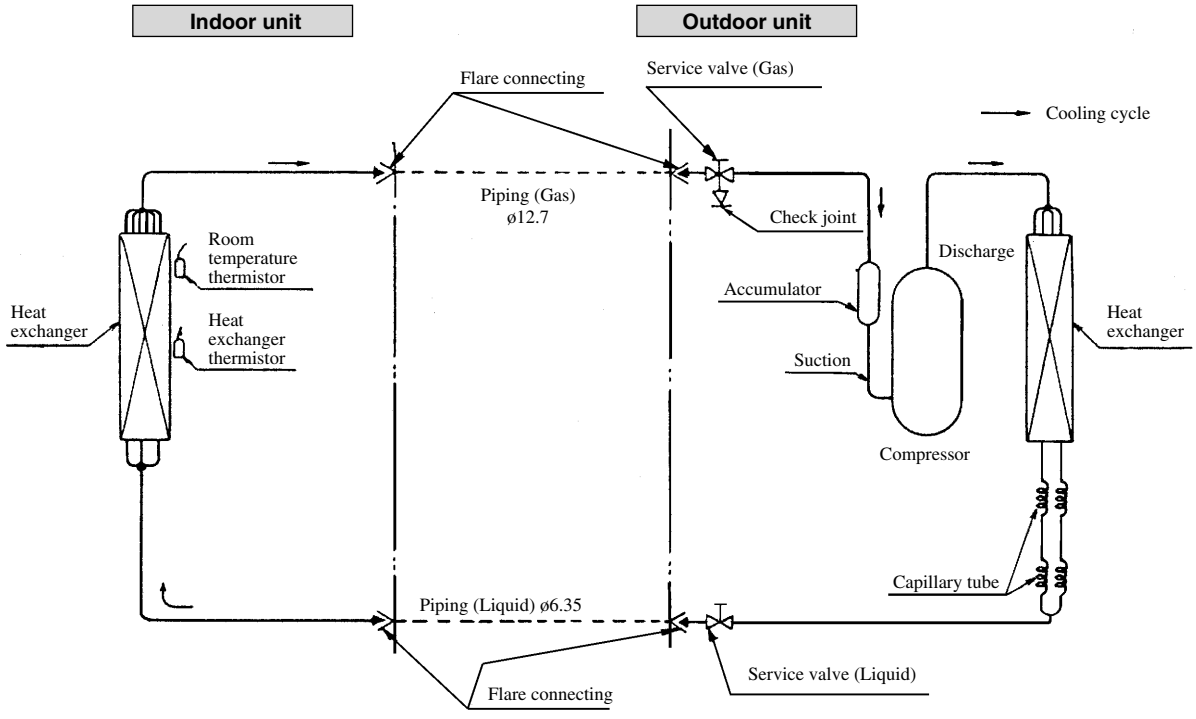


(2) Outdoor unit
Models SRC50CA, 56CA, 56CA-4



2.4 Piping system

Models SRK50CA, 56CA, 56CA-4

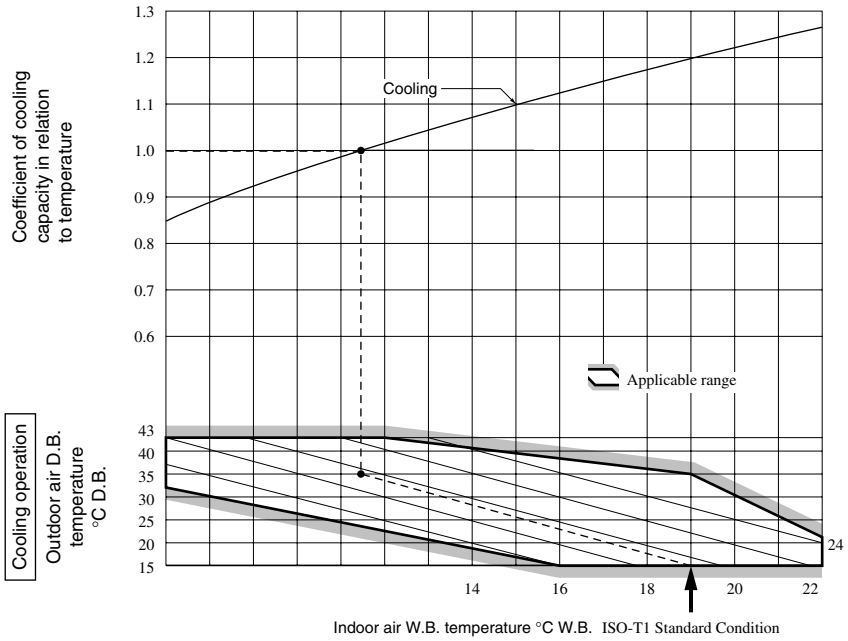


2.5 Selection chart

Correct the cooling capacity in accordance with the conditions as follows. The net cooling capacity can be obtained in the following way.

Net capacity = Capacity shown on specification × Correction factors as follows.

(1) Coefficient of cooling capacity in relation to temperatures



(2) Correction of cooling capacity in relation to one way length of refrigerant piping

It is necessary to correct the cooling capacity in relation to the one way piping length between the indoor and outdoor units.

Piping length [m]	7	10	15
Cooling	1.0	0.99	0.975

How to obtain the cooling capacity

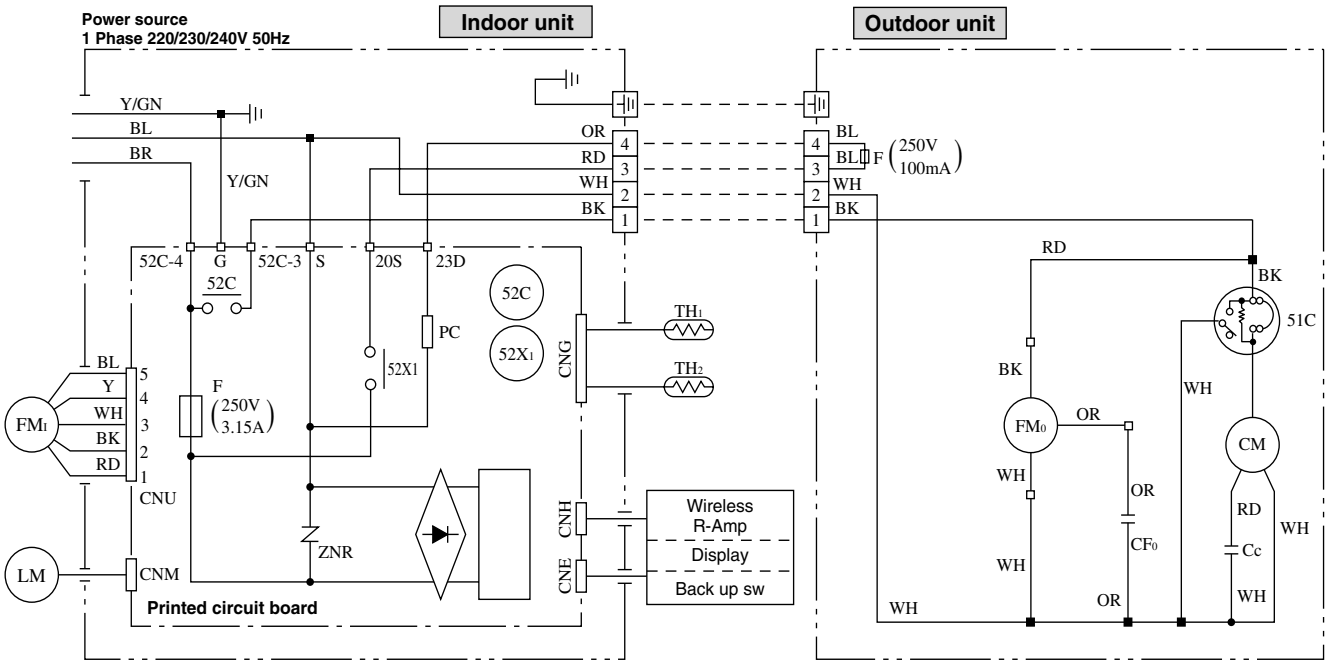
Example : The net cooling capacity of the model SRK50CA with the piping length of 15m, indoor wet-bulb temperature at 19.0˚C and outdoor dry-bulb temperature 35˚C is Net cooling capacity = $\underline{4500}$ × $\underline{0.975}$ × $\underline{1.0}$ = **4387 w**

4500 : SRK50CA
0.975 : Length 15m
1.0 : Factor by air temperatures

3 ELECTRICAL DATA

3.1 Electrical wiring

Models SRK50CA, 56CA, 56CA-4



Note(1) This figure shows SRK56CA and SRK56CA-4. As for SRK50CA, 51C differs as shown in the figure below.

(2) When an abnormality is indicated on the outdoor unit for the cooling only model, check the fuse on the outdoor unit. If the fuse is burnt out, replace it with new one.

Color symbol

BK	Black
BL	Blue
BR	Brown
RD	Red
OR	Orange
WH	White
Y	Yellow
Y/GN	Yellow/Green

Meaning of marks

Symbol	Parts name	Symbol	Parts name
C_C	Capacitor for CM	**LM**	Louver motor
CF_O	Capacitor for FM_O	**$Th_{1,2}$**	Thermistor
CM	Compressor motor	**ZNR**	Varistor
F	Fuse	**51C**	Motor protector for CM
FM_I	Fan motor (Indoor unit)	**52C**	Magnetic contactor for CM
FM_O	Fan motor (Outdoor unit)		

Table of relay operations

Relay symbol	Control part	Operation: Cooling
52C	**CM**	○

Notes (1) ○: denotes magentized relay ×: denotes demagnetized relay

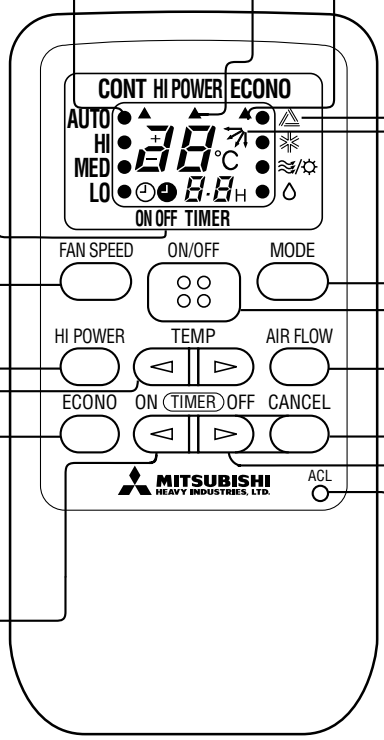
(2) Th_1 is room temperature thermistor. Th_2 (the heat exchanger thermistor) is frost prevention thermistor.
(for details, refer to page 75)

4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

(1) Operation control function by remote controller

Remote controller

Models All models



FAN SPEED indicator
Indicators the ● for the fan speed which has been set.

ON-TIMER • OFF-TIMER indicator

FAN SPEED button
Each time the button is pushed, the ● indicator is switched over in turn.

HI POWER button
This button changes the HI POWER operation.

SET TEMPERATURE button
This button sets the room temperature.

ECONOMY button
This button changes the ECONOMY operation.

ON TIMER button
This button sets the ON timer times.

● Above figure shows all indications for the purpose of explanation, but practically only the pertinent parts are indicated.

HI POWER operation indicator
Indicators during HI POWER operation.

ECONOMY operation indicator
Indicators during ECONOMY operation.

Operation switch over indicator
Indicators the ● for the operation which has been set.

AIR FLOW indicator
Indicates selected flap mode.

OPERATION MODE select button
Each time the button is pushed, the ● indicator is switched over in turn.

ON/OFF button
This button, when pressed, starts operation and stops when repressed.

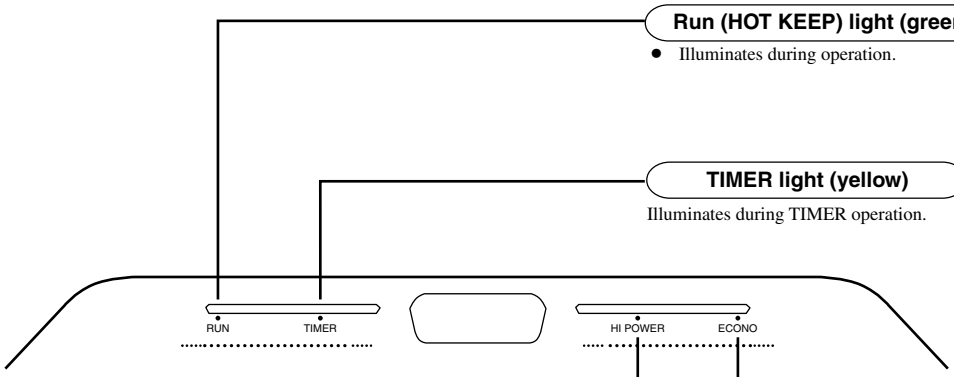
AIR FLOW button
This button changes the flap mode.

CANCEL button
The button releases the TIMER operation.

OFF TIMER button
This button sets the OFF timer Times.

Reset switch
Switch for resetting microcomputer.

Indoor unit indicator



Run (HOT KEEP) light (green)
● Illuminates during operation.

TIMER light (yellow)
Illuminates during TIMER operation.

HI POWER light (green)
Illuminates during HI POWER operation.

ECONOMY light (orange)
Illuminates during ECONOMY operation.

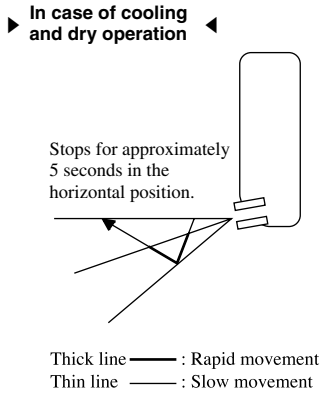
(2) Flap control

Control the flap by AIRFLOW button on the wireless remote controller.

(a) Natural flow (AUTO)

The flap will be automatically set to the angle of air flow best to operation.

(i) Starting time of operation



(ii) When not operating

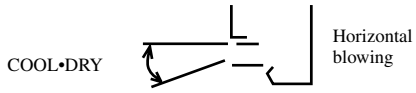
The flap returns to the position of air flow directly below, when operation has stopped.

(b) Memory flap

While the flap is operating if the AIRFLOW button is pushed once, it stops swinging at an angle.

As this angle is memorized in the microcomputer, the flap will be automatically set to the angle when next operation is started.

- Recommendable stopping angle of the flap



(c) Swing flap

Flap moves in upward and downward directions continuously.

(3) Back-up Switch

When the remote controller batteries become weak, or if the remote controller is lost or malfunctioning, this switch may be used to turn the unit on and off.

(a) Operation

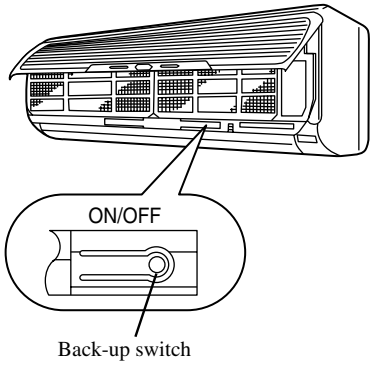
Push the switch once to place the unit in the automatic mode. Push it once more to turn the unit off.

(b) Details of operation

The unit will go into the automatic mode in which it automatically determines, from room temperature (as detected by thermistor), whether to go into the cooling or thermal dry modes.

Function / Operation mode	Room temperature setting	Fan speed	Flap	Timer switch
Cooling	About 26ºC	Auto	Natural flow	Continuous
Thermal dry	About 25ºC			

On operating in automatic operation mode by back-up switch, functions show in the above table are not altered, white, the other micro-computer control functions remain effective.



(4) AUTOMATIC operation

(a) Determination of operation mode

The blow operation of the indoor fan is carried out at the 1st speed for 20 seconds and the room temperature is checked to determine the operation mode automatically. (When the unit is operated by the turn-on timer, the blow operation is not carried out.)

	21℃≦Room temperature<26℃	26℃≦Room temperature
Operation mode	Dry	Cooling

(b) The temperature is checked once every 30 minutes after operation start. When the judgment is different from the previous operation mode, the operation mode is transferred.

(c) When the unit is operated again within 30 minutes after the operation stop or the operation of the unit is changed to the automatic operation during cooling, heating or dry operation, the unit is operated with the previous operation mode.

(d) Established temperature (operate by the established temperature button on remote controller).

		Wireless remote control signal (Indication)												
		-6	-5	-4	-3	-2	-1	±0	+1	+2	+3	+4	+5	+6
Temperature setting	Cooling	20	21	22	23	24	25	26	27	28	29	30	31	32
	Thermal dry	19	20	21	22	23	24	25	26	27	28	29	30	31

(5) Comfort timer settings

Temperature is checked beginning 1 hour before the set time, and the power is turned on before the timer setting as necessary to bring the temperature to the proper level by the set time.

Operation mode	Room temperature thermistor (Th_1)	Operating start time (amount of time previous to set time that operation begins)
Cooling	Over 40˚C	60 mins.
	Over 35˚C	30 mins.
	Over 30˚C	15 mins.

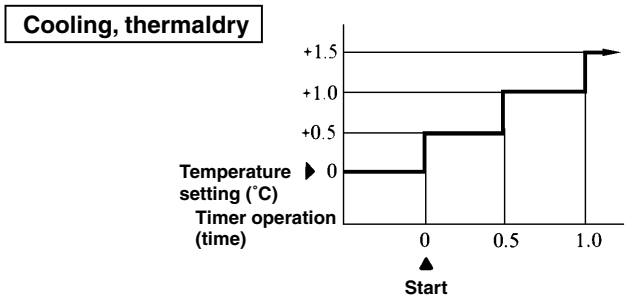
Notes (1) At 5 minutes before the set time of the turn-on timer, the operation is started regardless of the temperature of the room temperature thermister.
(2) When the dry or blow operation is selected, this function is not activated.
(However, when the automatic dry operation is selected, the function described in article (1) is operated.)

(6) Timer time setting

The turn-off timer and turn-on timer can be set for up to 12 hours in units of 1 hour.

(7) Night time turn off

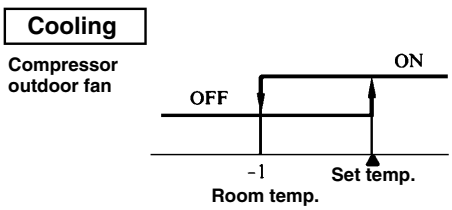
Placing the timer to this setting changes the temperature setting of the indoor set button as follows:



(8) Temperature adjustment

a) Temperature adjustment setting may be set between 18 and 30˚C.

b) The compressor and outdoor fan and turned on and off as shown below according to the temperature setting.



c) During the continuous mode, the compressor runs continuously in cooling. For thermal dry, please refer to page 79.

(9) Fan control

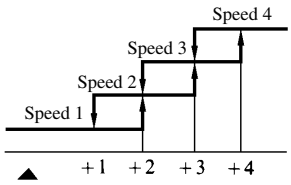
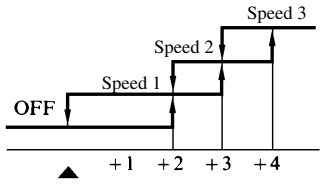
(a) Fan speed change

Mode / Fan speed knob	COOL	FAN
AUTO	See below	
LOW	Speed 2	Speed 2
MED	Speed 3	Speed 3
HIGH	Speed 4	Speed 4

Note (1) Please refer to page 74 regarding dry operation.

(b) Fan speed knob: AUTO

The indoor fan is automatically controlled in accordance with the difference between the room temperature (detected by the room temperature thermistor) and the thermostat setting as shown below.

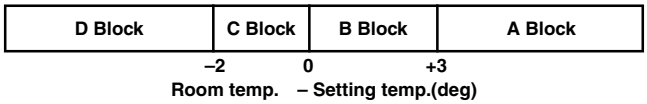
Set-ting temp / Mode	Cooling	Fan
18~30°C		
Continuous	Speed 5	Speed 4

Note (1) Please refer to page 74 regarding dry operation.

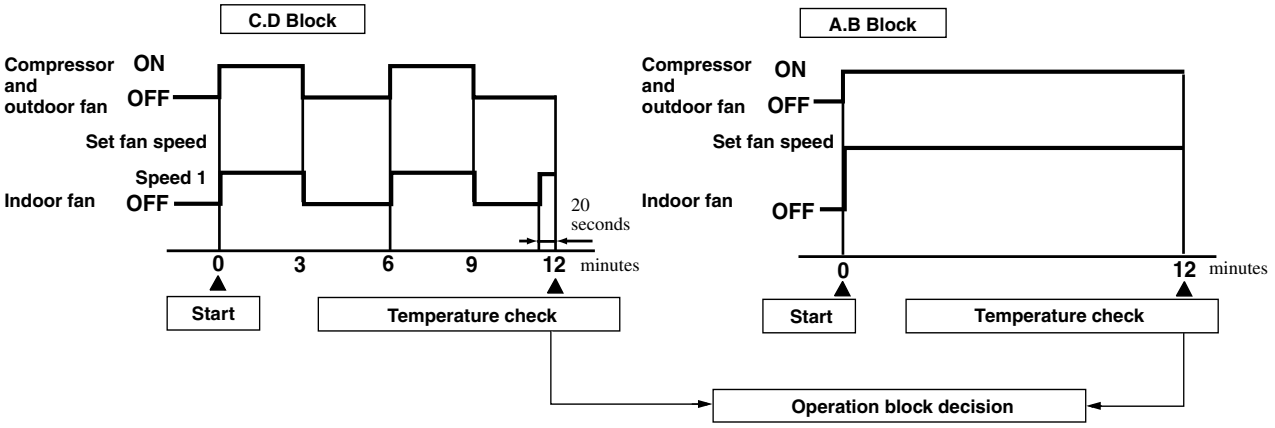
(10) DRY operation

(a) Choose the appropriate operation block area by the difference between room temperature and thermostat setting temperature as shown below.

- **Operation block area**



(b) Start up operation

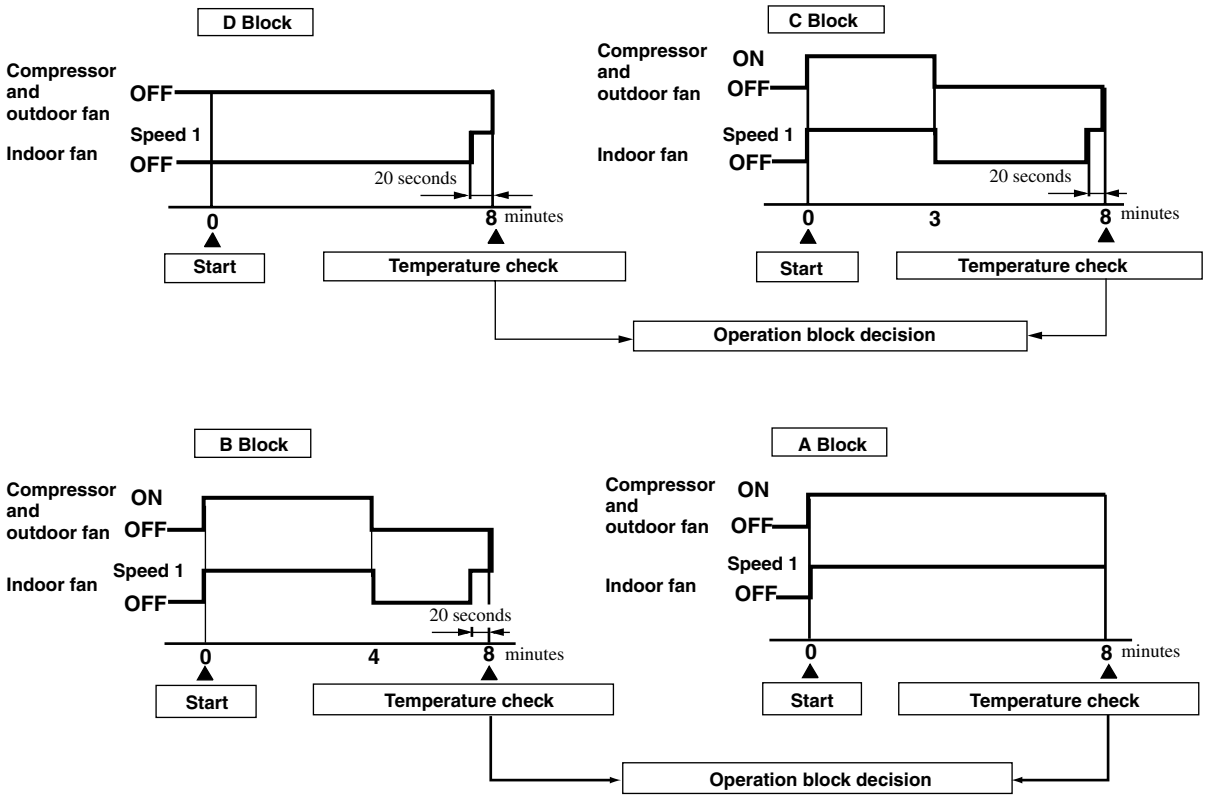


Note (1) Thermostat operation is performed in A, B Block. When compressor and indoor fan stop by thermostat operation within 12 minutes from start, temperature check is performed by operating indoor fan at speed 1 for 20 seconds before finishing 12 minutes and allowing decision of next operation block.

(c) DRY operation

After finishing start up operation described in (b) above, thermal dry operation is performed at 8 minutes intervals, according to the difference between room temperature and thermostat setting temperature as shown below.

Beside, 1 cycle of this operating time consists of 8 minutes, 7 cycle operation is performed then.



(11) Dew condensation prevention control for cooling operation

This prevents dew condensation, in the indoor unit, from occurring.

(a) **Operating condition:** when 52C is kept ON for 30 min. after the unit starts operation.

(b) **Operation content:** forces the indoor fan to change from Speed 1 to Speed 2.

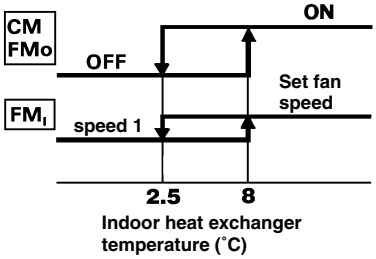
(c) **Resetting condition:** When 52C is off, or when dew condensation prevention control has been operating continuously for 30 minutes.

(12) Frost prevention for indoor heat exchanger [Preventing frost accumulation on the indoor heat exchanger]

During the Cooling or Dry operation in low room air temp. condition, evaporating temperature will decrease and consequently indoor heat exchanger sometimes gets clogged with frost (or ice).

In order to prevent this trouble, compressor is stopped by under mentioned condition by indoor heat exchanger sensor (Th_2) and timer (built into micro computer circuit) functions.

Also indoor fan is changed over to speed 1.



CM, FM_O stoppage condition

① Temperature of heat exchanger is 2.5˚C or lower.

② As least 10 minutes has passed since the compressor started.

CM, FM_O re-starting condition

① Temperature of heat exchanger is 8˚C or higher.

② As least 3 minutes has passed since the compressor stopped.

(13) Three-minute forced operation

When the compressor begins operating the thermal operation is not effective for 3 minutes, so operation continues as is in the operation mode. (After 3 minutes has passed the thermal operation is effective.)

However, stopping the compressor via a stop signal or protection control has priority.

(14) High power operation (Remote controller "HI POWER" button on)

The indoor unit fan rotates at speed 6 for 15 minutes, and carries out continuous cooling and Fan.

(15) Economy operation (Remote controller "ECONO" button on)

(a) Cooling economy operation

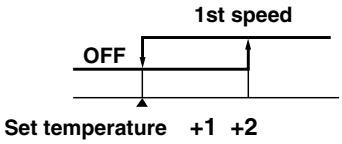
The set temperature is raised by 2˚C and the unit is operated in cooling mode.

(b) Thermal dry economy operation

Thermal dry operation carried out at 2˚C higher than the set temperature.

(c) Blow economy operation

The indoor fan is controlled as follows.



(16) Self diagnosis function

When something abnormal happens on the outdoor unit, indoor unit fan motor and each sensor (heat exchanger, room temperature,) it will be indicated by flashing lamps.

(a) Abnormality of outdoor unit:

1) Cooling operation

When the indoor heat exchanger temperature does not fall to 25˚C or below for 40 minutes after 5 minutes have elapsed since the compressor operation start, the abnormality stop occurs. (The timer lamp flashes 5 times.)

(b) Abnormality of indoor fan motor:

When the status that the fan motor speed is 300 rpm or under continues for 30 seconds or more during the indoor fan motor operation, the unit is stopped. The fan motor operation is restarted after 10 seconds, however, if the fan is stopped again, the air-conditioner is completely stopped as the indoor fan motor abnormality and the abnormality indication is displayed. (The operation lamp flashes 6 times.)

(c) Abnormality of heat exchanger thermistor:

RUN lamp will flashing when the input temperature of the heat exchanger thermistor measures less than –20˚C for more than 3 seconds with the air-conditioner "OFF". (will not flashing during operation)

(d) Abnormality room temperature thermistor:

RUN lamp will flashing when the input temperature of the room temperature thermistor measures less than –20˚C for more than 3 seconds with the air-conditioner "OFF". (will not flashing during operation)

Note (1) If the above abnormalities happen concurrently, the lamp will flashing in the order of item number (a) through (d) above.

5 APPLICATION DATA

SAFETY PRECAUTIONS

- Please read these "Safety Precautions" first then accurately execute the installation work.
- Though the precautionary points indicated herein are divided under two headings, **⚠WARNING** and **⚠CAUTION** , those points which are related to the strong possibility of an installation done in error resulting in death or serious injury are listed in the **⚠WARNING** section. However, there is also a possibility of serious consequences in relationship to the points listed in the **⚠CAUTION** section as well. In either case, important safety related information is indicated, so by all means, properly observe all that is mentioned.
- After completing the installation, along with confirming that no abnormalities were seen from the operation tests, please explain operating methods as well as maintenance methods to the user (customer) of this equipment, based on the owner's manual. Moreover, ask the customer to keep this sheet together with the owner's manual.

⚠WARNING

- This system should be applied to places as households, residences and the like. Application to inferior environment such as engineering shop could cause equipment malfunction.
- Please entrust installation to either the company which sold you the equipment or to a professional contractor. Defects from improper installations can be the cause of water leakage, electric shocks and fires.
- Execute the installation accurately, based on following the installation manual. Again, improper installations can result in water leakage, electric shocks and fires.
- For installation, confirm that the installation site can sufficiently support heavy weight. When strength is insufficient, injury can result from a falling of the unit.
- For electrical work, please see that a licensed electrician executes the work while following the safety standards related to electrical equipment, and local regulations as well as the installation instructions, and that only exclusive use circuits are used.
  Insufficient power source circuit capacity and defective installment execution can be the cause of electric shocks and fires.
- Accurately connect wiring using the proper cable, and insure that the external force of the cable is not conducted to the terminal connection part, through properly securing it improper connection or securing can result in heat generation or fire.
- Take care that wiring does not rise upward, and accurately install the lid/service panel. It's improper installation can also result in heat generation or fire.
- When setting up or moving the location of the air conditioner, do not mix air etc. or anything other than the designated refrigerant (R22) within the refrigeration cycle.
  Rupture and injury caused by abnormal high pressure can result from such mixing.
- Always use accessory parts and authorized parts for installation construction. Using parts not authorized by this company can result in water leakage, electric shock, fire and refrigerant leakage.
- Ventilate the work area when refrigerant leaks during the operation.
  Coming in contact with fire, refrigerant could generate toxic gas.
- Confirm after the foundation construction work that refrigerant does not leak.
  If coming in contact with fire of a fan heater, a stove or movable cooking stove, etc., refrigerant leaking in the room could generate toxic gas.

⚠CAUTION

- Execute proper grounding. Do not connect the ground wire to a gas pipe, water pipe, lightning rod or a telephone ground wire.
  Improper placement of ground wires can result in electric shock.
- The installation of an earth leakage breaker is necessary depending on the established location of the unit.
  No installing an earth leakage breaker may result in electric shock.
- Do not install the unit where there is a concern about leakage of combustible gas.
  The rare event of leaked gas collecting around the unit could result in an outbreak of fire.
- For the drain pipe, follow the installation manual to insure that it allows proper drainage and thermally insulate it to prevent condensation. Inadequate plumbing can result in water leakage and water damage to interior items.

5.1 Selection of location for installation

Unit : mm

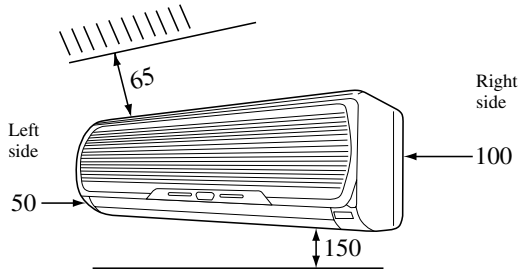
(1) Indoor unit

(a) Where there is no obstructions to the air flow and where the cooled air can be evenly distributed.

(b) A solid place where the unit or the wall will not vibrate.

(c) A place where there will be enough space for servicing. (Where space mentioned below can be secured)

(d) Where wiring and the piping work will be easy to conduct.



(e) The place where receiving part is not exposed to the direct rays of the sun or the strong rays of the street lighting.

(2) Outdoor unit

(a) A place where good air circulation can be obtained.

(b) A place where the exhausted air will not be sucked in for the second time.

(c) A place where the unit will not be affected by other heat sources. (When there are several units installed or another heat source)

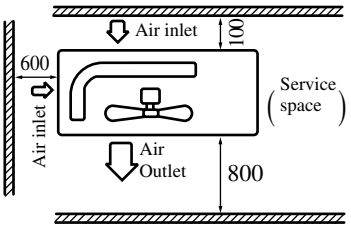
(d) Do not install the unit near the seaside, or where there is possibility of chlorine gas generation.

(e) A place where discharged hot air or unit's operating sound will not be nuisance to the neighbourhood.

(f) A place where servicing space can be secured.

(g) A place where vibration will not be enlarge.

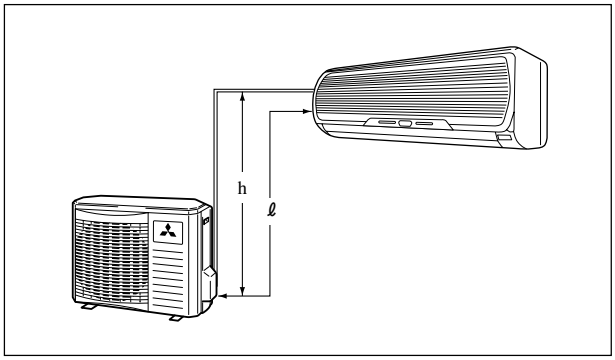
Unit : mm



Note (1) If the wall is higher than 1.2 m or a ceiling is present, distances larger than indicated in the above table must be provided.

(3) Limitations for one way piping length and vertical height difference.

Item \ Model		All models
One way piping length (ℓ)		15
Vertical height difference (H)	Outdoor unit is lower	5 m
	Outdoor unit is higher	5 m

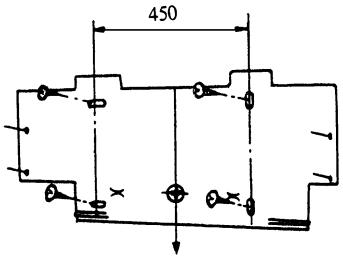


5.2 Installation of indoor unit

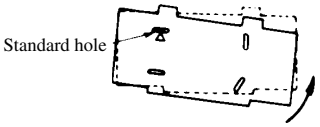
(1) Installation if installation board

(a) Fixing of installation board

Lock for the inside wall structures (Intermediate support or pillar) and firmly install the unit after level surface has been checked.

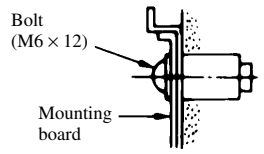
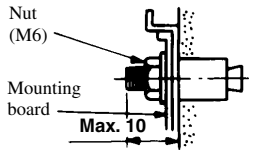


Adjustment of the installation board in the horizontal direction is to be conducted with lour screws in a temporary tightened state.



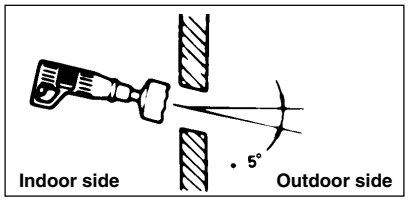
Adjust so that board will be level by turning the board with the standard hole as the center.

(b) Fixing method of installation board

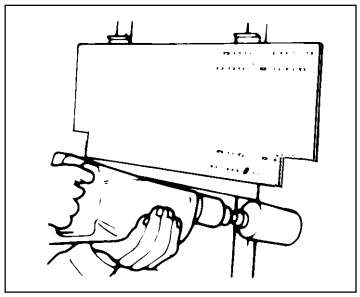
Fixing on concrete wall	
Use of nut anchor	Use of bolt anchor
	

(2) Drilling the and installation of sleeve

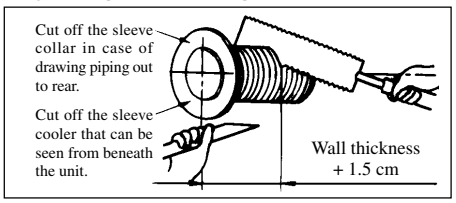
(a) Drill a hole with ø65 whole core drill



Note (1) Drill a hall with incline of 5 degree from indoor side to outdoor side.

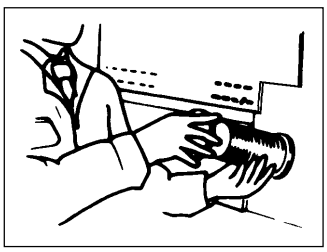


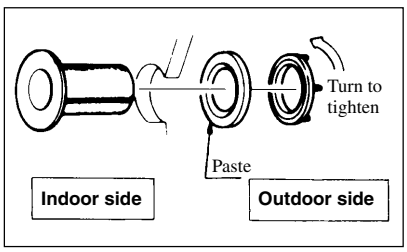
(b) Adjusting sleeve lenght (Option parts)

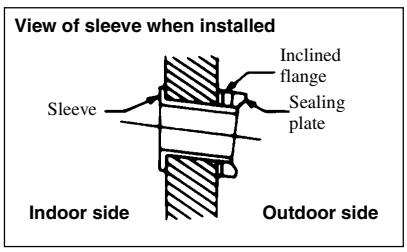


(c) Install the sleeve

(Inserting sleeve) (*Sleeve + *Inclined + *Sealing plate)







(3) Preparation of indoor unit

(a) Mounting of connecting wires

(i) Open the suction grille, then remove the lid.

(ii) Remove the wiring clamp.

(iii) Pass the connecting wire to terminal block from behind of indoor unit.

(iv) Connect the connecting wire securely to the terminal block.

① Connect the connection wire securely to the terminal block. If the wire is not affixed completely, contact will be poor, and it is dangerous as the terminal block may heat up and catch fire.

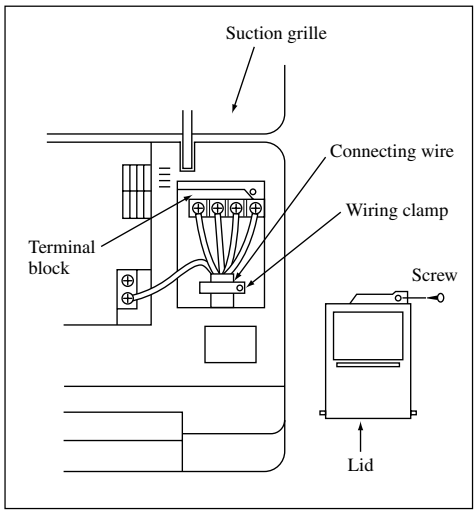
② Take care not to confuse the terminal numbers for indoor and outdoor connections.

③ Affix the connection wire using the wiring clamp.

(v) Fix the connecting wire by wiring clamp.

(vi) Attach the lid.

(vii) Close the suction grille.



Use cables for interconnection wiring to avoid loosening of the wires.
CENELEC code for cables Required field cables.

H05	RNR3G1.5 (Example)
H	Harmonized cable type
05	300/500 volts
R	Natural-and/or synth, rubber wire insulation
N	Polychloroprene rubber conductors insulation
R	Stranded core
3or5	Number of conductors
G	One conductor of the cable is the earth conductor (yellow/green)
1.5	Section of copper wire (mm^2)

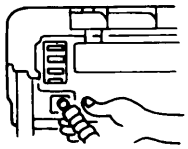
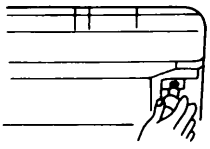
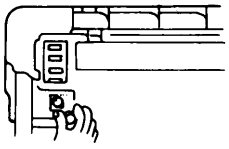
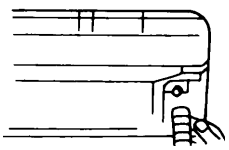
type	Cooling only type
1 BROWN	○
2 BLUE	○
3 BLACK	○
4 GREEN	○
⏚ YELLOW / GREEN	○

(b) Protective taping (Protect the cable with tape at the section where the cable passes through the hole opened on the wall.)

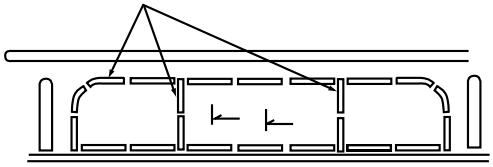
(c) Forming of pipe (Holding down the pipe at the root, change the pipe direction, extend it and adjust according to the circumstance.)

[When the pipe is extended to left and taken out from the rear center]

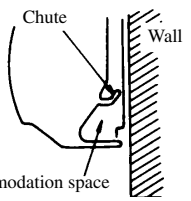
(Drain pipe relocation procedure)

1. Remove the drain pipe.	2. Remove the drain cap.	3. Insert the drain cap.	4. Connect the drain pipe.
			
• Loosen the spring clamp to remove.	• Remove by hand or use cutting pliers, etc.	• Securely insert the drain cap removed in the step 2. Note: If it is inserted insufficiently, water leakage could result.	• Loosen the spring clamp and securely insert the drain pipe. Note: If it is inserted insufficiently, water leakage could result.

• When arranging the pipe through a hole opened at the center, open the knockout hole using nippers, etc.



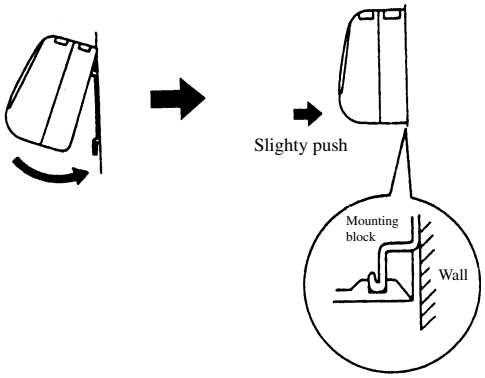
Note (1) It is designed to collect moisture accumulated on the rear face in the drain pan. Be sure not to accommodate the power cable, etc. above the chute.

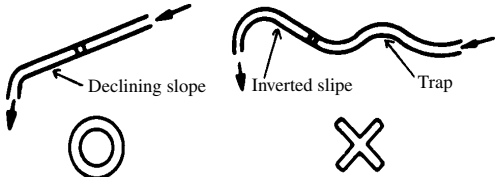


(4) Installation of indoor unit

(a) Hang the upper portion of the unit rear cover on the mounting board, and then magnet on the lower unit portion will pull to fix the unit.

(b) Be sure not to leave any trap on the drain pipe.





5.3 Installation of outdoor unit

(1) Installation of outdoor unit

(a) Make sure that sufficient space for installation and service is secured.

(b) Fix the leg sections of the unit on a firm base which will not play.
Attach cushion pads, etc. between the unit and the mounting fixtures not to transmit vibration to the building.

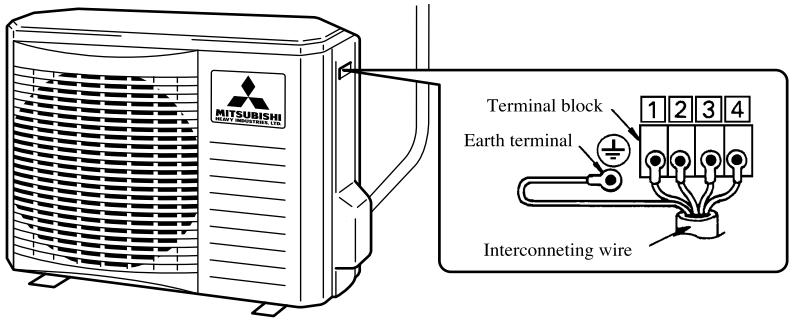
(c) Attach a drain elbow, etc. under the drain port of the bottom plate to guide drain water. (Drain elbow should not be used where days when temperature drops below 0˚C continue for several days. Draining may be disturbed by frozen water.)

(d) When installing the unit at a higher place or where it could be toppled with strong winds, secure the unit firmly with foundation bolts, wire, etc.

(2) Connection of indoor and outdoor connecting wiring

(a) Connect the wiring according to the number of the indoor terminal block. (Mis-wiring may cause the burning damage, and make sure to connect correctly.)

(b) When an abnormality is indicated on the outdoor unit for the cooling only model, check the fuse on the outdoor unit. If the fuse is burnt out, replace it with new one.



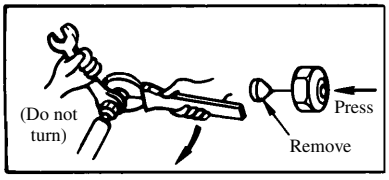
type	Cooling only type
1 BROWN	○
2 BLUE	○
3 BLACK	○
4 GREEN	○
⏚ YELLOW / GREEN	○

5.4 Refrigerant piping

(1) Preparation

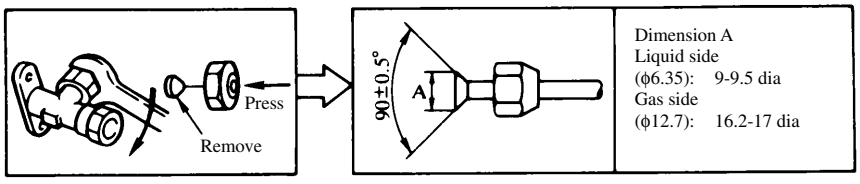
Keep the openings of the pipes covered with tapes etc. to prevent dust, sand, etc. from entering them.

Indoor unit side



- Remove the flared nuts. (on both liquid and gas sides)

Outdoor unit side

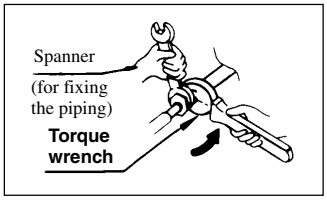


- Remove the flared nuts. (on both liquid and gas sides)
- Install the removed flared nuts to the pipes to be connected, then flare the pipes.

(2) Connection of refrigerant piping

Indoor unit side

- Connect firmly gas and liquid side pipings by Torque wrench.

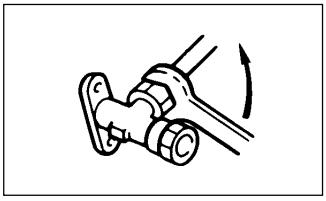


- Specified torquing value:

Liquid side (ø6.35) : 15.7~19.6 N·m(1.6~2.0 kgf·m)
Gas side (ø12.7) : 39.2~49.0 N·m(4.0~5.0 kgf·m)

Outdoor unit side

- Connect firmly gas and liquid side pipings by Torque wrench.



- Specified torquing value:

Liquid side (ø6.35): 15.7~19.6 N·m(1.6~2.0 kgf·m)
Gas side (ø12.7) : 39.2~49.0 N·m(4.0~5.0 kgf·m)

- **Use one more spanner to fix the valve.**

- Always use a Torque wrench and back up spanner to tighten the flare nut.

(3) Air purge

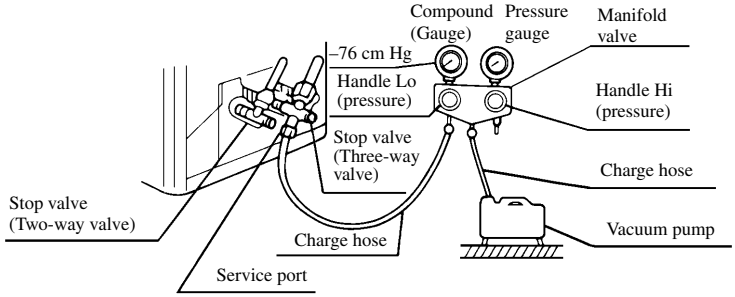
(a) Tighten all flare nuts in the pipings both indoor and outside wall so as not to cause leak.

(b) Connect operating valve, charge hose, manifold valve and vacuum pump as is illustrated below.

(c) Open manifold valve handle Lo to its full width, and perform vacuum or evacuation.
Continue the vacuum or evacuation operation for 15 minutes or more and check to see that the vacuum gauge reads – 0.1MPa (– 76cm Hg).

(d) After completing vacuum operation, fully open operating valve (Both gas and liquid sides) with hexagon headed wrench.

(e) Check for possible leakage of gas in the connection parts of both indoor and outdoor.



Additional refrigerant charge

When refrigerant piping exceeds 7m conduct additional refrigerant charge after refrigerant sweeping.
A mount of additional charge per meter : 20g/m

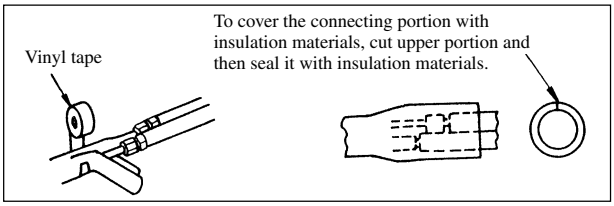
Example of additional charge amount calculation

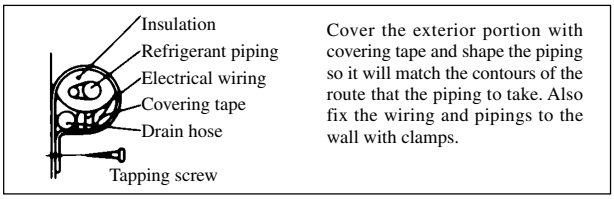
Calculate the additional charge amount, when the piping length is 10m.
(10 – 7)m × 20g/m = 60g 60g for additional charge amount

(4) Insulation of connecting portion

1) Cover the connection portion of the refrigerant piping with the pipe cover and seal them.
If neglecting to do so, moisture occurs on the piping and water will drip out.

2) Finishing and fixing
   a) Tie up the piping with wrapping tape, and shape it so that it conforms to which the pipe is attached.
   b) Fix them with clamps as right figure.





5.5 Test run

(1) Conduct trial run after confirming that there is no gas leaks.

(2) When conducting trial run set the remote controller thermostat to continuous operation position. However when the power source is cut off or when the unit's operation switch is turned off or was turned to fan operation position, the unit will not go into operation in order to protect the compressor.

(3) Insert in electric plug into the electric outlet and make sure that it is not loose.

(a) When there is something wrong with the electric outlet and if the insertion of the electric plug is insufficient, there may occur a burn out.

(b) It is very important to be careful of above when pulgging in the unit to an already furnished electrical outlet.

(4) Explain to the customer on the correct usage of the air conditioner in simple layman's terms.

(5) Make sure that drain flows properly.

(6) Standard operation data

(230V)

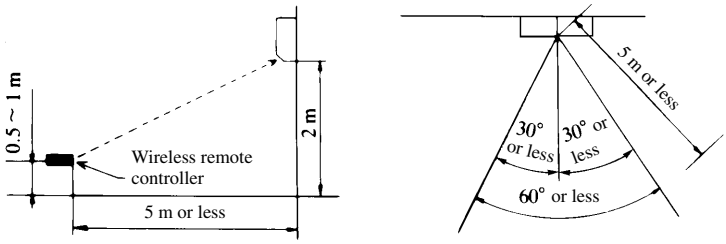
Item \ Model	SRK50CA	SRK56CA, 56CA-4
High pressure MPa(kgf/cm²)	–	–
Low pressure MPa(kgf/cm²)	0.39~0.49 (4~5)	0.34~0.44 (3.5~4.5)
Temp. difference between suction air and discharge air (˚C)	12~16	12~16
Running current (A)	8.4/8.0/7.7	9.7/9.3/8.9

Note (1) The data are measured at following conditions.
Ambient air temperature
Indoor side: Cooling ... 27°C DB, 19°C WB
Outdoor side: Cooling ... 35°C DB, 24°C WB

5.6 Precautions for wireless remote controller installation and operation

(1) Wireless remote controller covers the following distances:

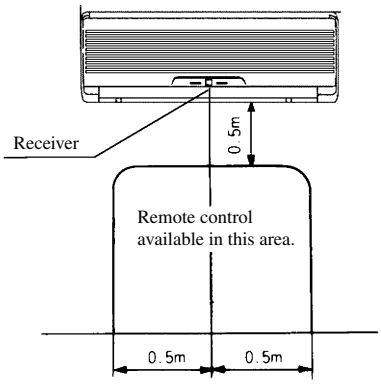
(a) When operating facing the air-conditioner:



Notes (1) The remote controller is correctly facing the sensing element of the air conditioner when being manipulated.
(2) The typical coverage is indicated (in the left illustration). It may be more or less depending on the installation.
(3) The coverage may be less or even nil. If the sensing element is exposed to strong light, such as direct sunlight, illumination, etc., or dust is deposited on it or it is used behind a curtain, etc.

(b) When manipulating the remote controller mounted on a wall:

Make sure that it works normally (i.e., transmission/reception signal is audible) before mounting.

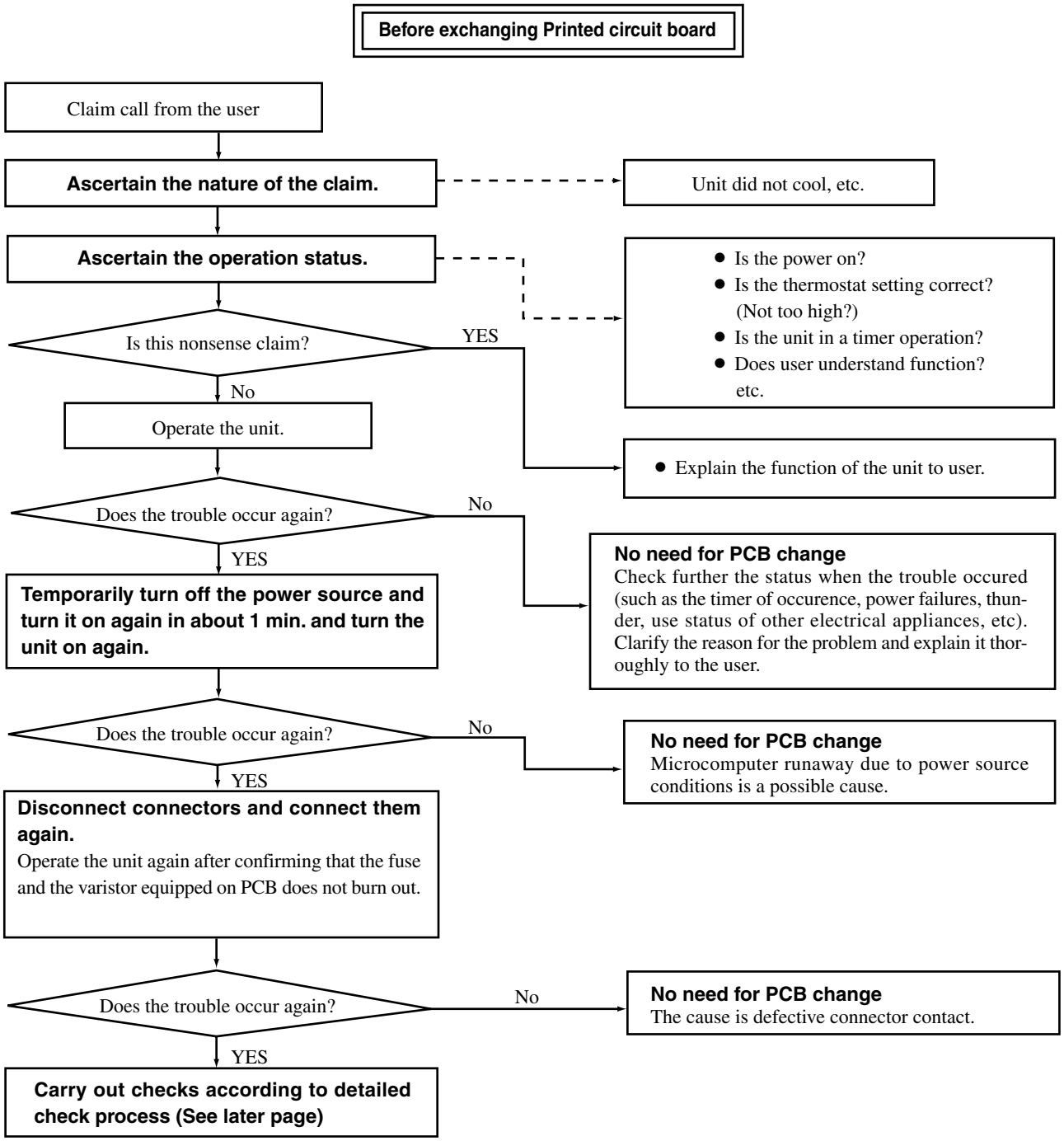


6 MAINTENANCE DATA

6.1 Trouble shooting

(1) Trouble shooting to be performed prior to exchanging PCB, (Printed circuit board) [Common to all models]

All the models described in this chapter are controlled by a microcomputer. When providing maintenance service to customers it is necessary to understand the function controlled by a micro computer thoroughly, so as not to mistakenly identify correct operations as mis-operations. It is also necessary to perform the following simple checks before conducting detailed checks or exchanging printed circuit board.



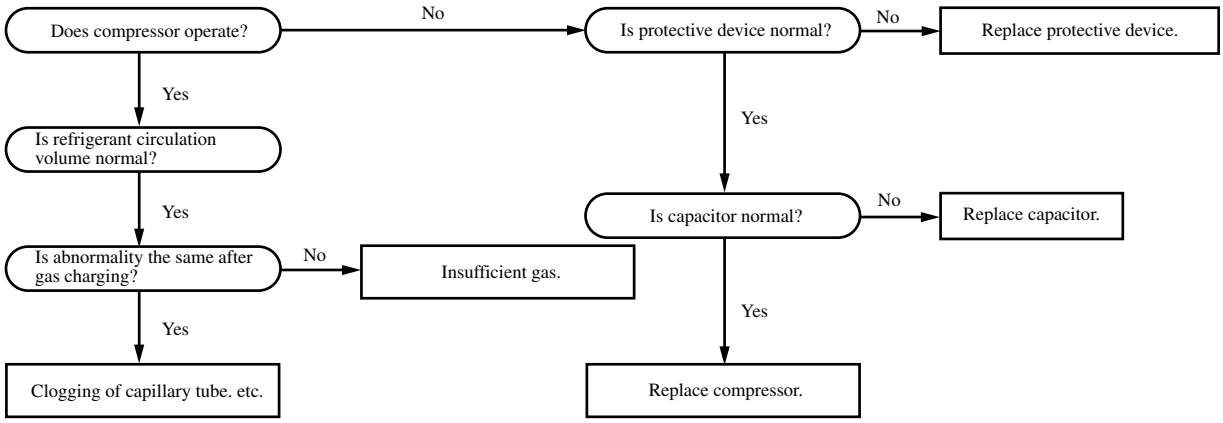
(2) Indication of Self Diagnosis (Indoor unit)

		Connect of Defect	Place of defect
TIMER lamp is lights continuously.	RUN lamp is flashing. (1 Time flash.)	Abnormality of heat exchanger thermistor.	● Disconnection of heat exchanger thermistor.
	RUN lamp is flashing. (2 Time flash.)	Abnormality of room temperature thermistor.	● Disconnection of room temperature thermistor.
	RUN lamp is flashing. (6 Time flash.)	Abnormality of indoor fan motor.	● Fan motor is defective. ● Printed circuit board is defective.
RUN lamp is lights continuously.	TIMER lamp is flashing. (5 Time flash.)	Abnormality of outdoor unit.	● Compressor is defective. ● Capacitor is defective. ● Gas is short.

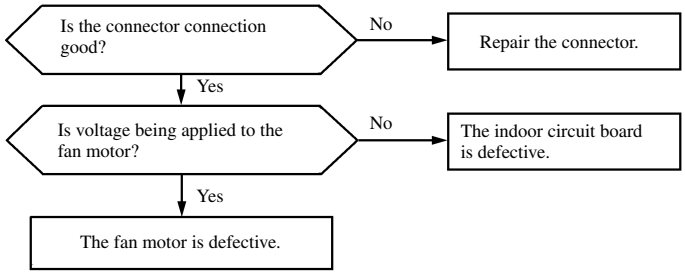
Note (1) When an abnormality is indicated on the outdoor unit for the cooling only model, check the fuse on the outdoor unit. If the fuse is burnt out, replace it with new one.

(3) Troubleshooting

Abnormality of outdoor unit [Compressor malfunction of insufficient gas (refrigerant)]



Abnormality of indoor fan motor (Fan motor defective, printed circuit board defective)



Anormality of thermistor Disconnection of thermistor and defective connection of connector

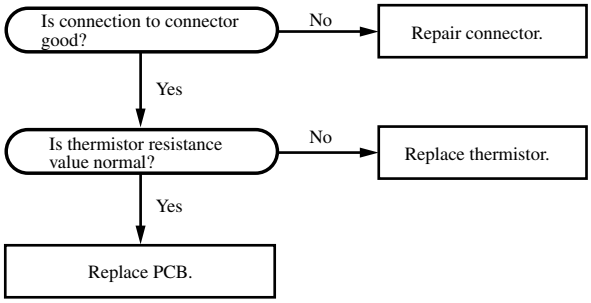
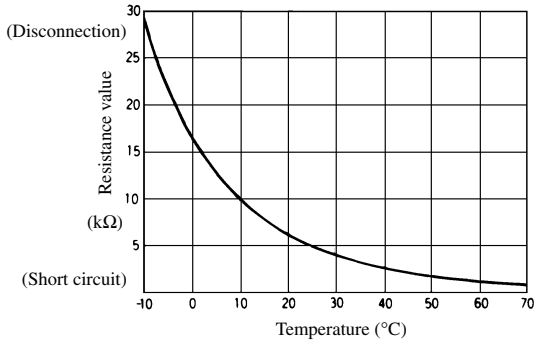
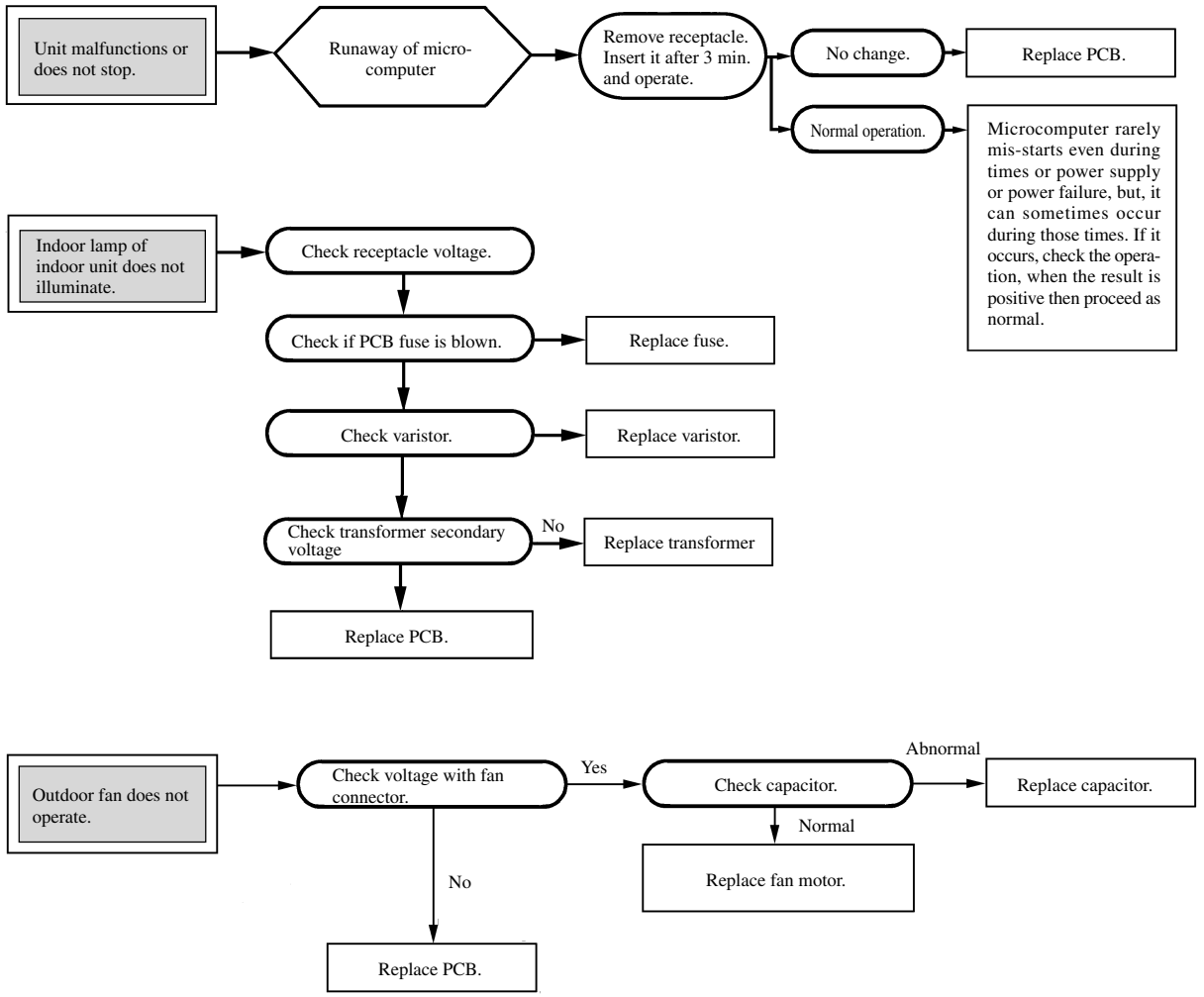


Chart for thermistor temperature resistance characteristics



(4) Trouble Diagnostic Procedures

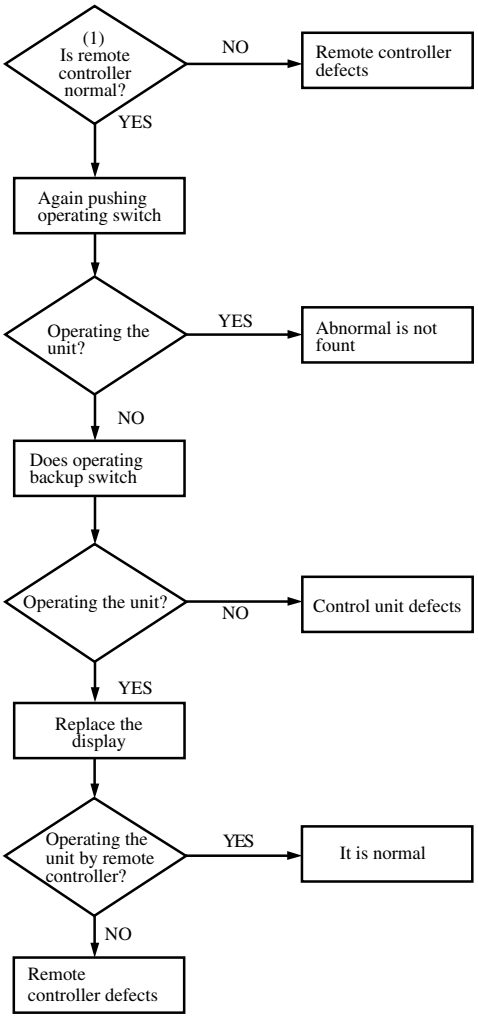


(5) Trouble shooting chart for the room temperature thermistor (Th_1), heat exchanger thermistor (Th_2)

Unit	Thermistor	Operation	Function	
			Short circuit	Broken connection
Indoor unit	**Room temperature thermistor (1) (Th_1) except for "continuous" thermal setting.**	**Cooling**	**Continuous Cooling operation** ● Cannot be turned ON/OFF by thermostat ● When FM_I is on. "AUTO" is continuously Hi	**Cooling will not operate** ● FM_I : continuous operation ● CM,FM_O: stopped
	Heat exchanger thermistor (Th_2)	**Cooling**	Cooling will not operate.	**Cooling will operate** ● Heat exchanger frost preventer begins to operate ● Cools alternately for 10 minutes, stopping for 3 minutes.

Note (1) When the room temperature thermistor (Th_1) will not operate normally. Cooling operation may be run continuously by putting the thermostat setting on "CONTINUOUS"

(6) How to make sure of remote controller



Note (1) How to check the remote controller

(a) Press the reset switch of remote controller.

(b) If the almost normal if entire display of remote controller is shown after 0 indication.

6.2 Servicing

(1) Evacuation

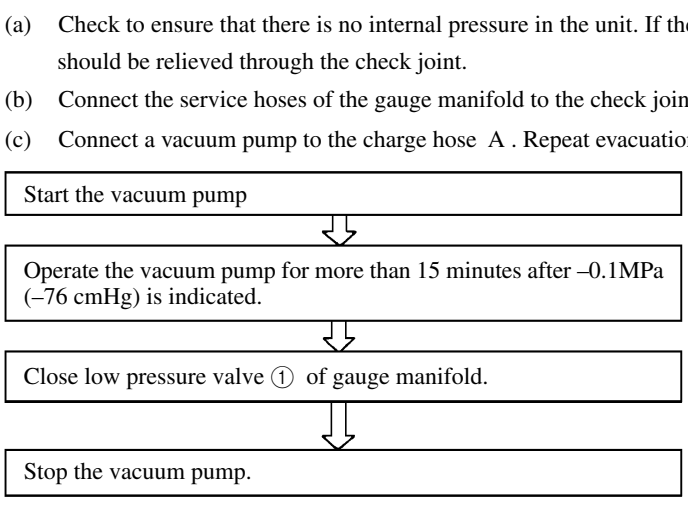
The evacuation is an procedure to purge impurities ..... noncondensable gas, air, moisture from the refrigerant equipment by using a vacuum pump. Since the refrigerant R22 is very insoluble in water, even a small amount of moisture left in the refrigerant equipment will freeze, causing what is called water clogging.

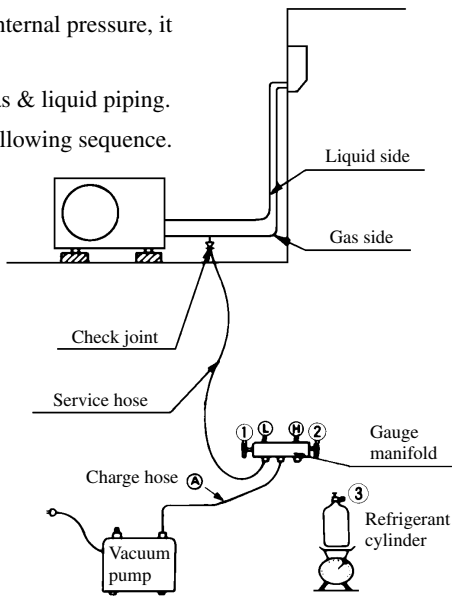
- **Evacuation procedure**

(a) Check to ensure that there is no internal pressure in the unit. If there is an internal pressure, it should be relieved through the check joint.

(b) Connect the service hoses of the gauge manifold to the check joint of the gas & liquid piping.

(c) Connect a vacuum pump to the charge hose A . Repeat evacuation in the following sequence.





Notes (1) Do not use the refrigerant pressure to expel air.
(2) Do not use the compressor for evacuation.
(3) Do not operate the compressor in the vacuum condition.

(2) Refrigerant charge

(a) Discharge refrigerant entirely from the unit and evacuate the unit.
Note: Addition of refrigerant without evacuation is unreasonable, because it will result in low charge or overcharge.

(b) Keep the gauge manifold and connect a refrigerant cylinder to the unit.

(c) Record the weight of the refrigerant cylinder on the balance. This is necessary for making sure of the charged refrigerant amount.

(d) Purge air from the charge hose A .
Firstly loose the connecting portion of the charge hose A at the gauge manihold side and open the valve ③ for a few seconds, and then immediately retighten it after observing that gas is blow out from the loosened portion.

(e) Open the valve ① and ③ after discharging air from the charge hose A , then the gas refrigerant begins flowing from the cylinder into the unit. Be sure to erect the refrigerant cylinder upright to let gas refrigerant flow into the unit.

(f) When refrigerant has been charged into the system to some extent, refrigerant flow becomes stagnant, when that happens, start the compressor in cooling cycle until the unit is filled with gas to the specified weight.

(g) Making sure of the refrigerant amount, close the valve ③.

(h) Disconnect the charge hose from the unit. Cover the valve ports of the refrigerant piping with caps and tighten them securely.

(i) Check for gas leakage applying a gas leak detector along the piping line.

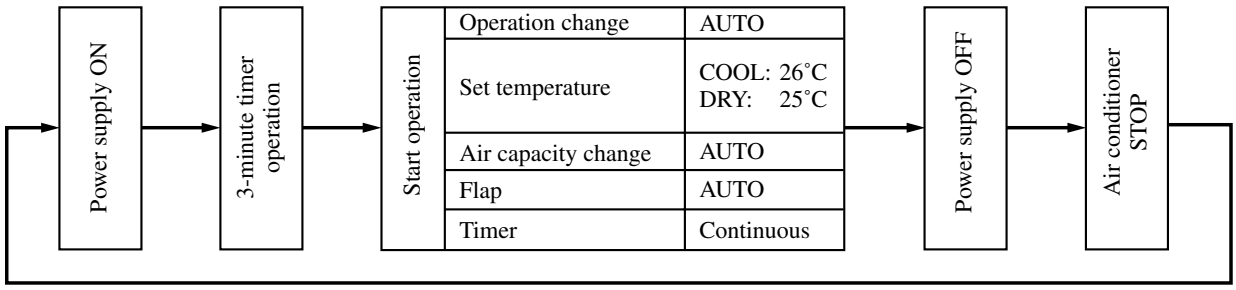
(j) Start the air conditioner and make sure of its operating condition ..... high side and low side pressures and temperature difference between suction air and outlet air.

6.3 Power supply remote operation

When the remote part on indoor unit PCB is modified, the air conditioner is turned ON-OFF by power supply ON-OFF operation without using remote control switch.

After the power supply remote operation, the operation contents can be modified by the remote controller.

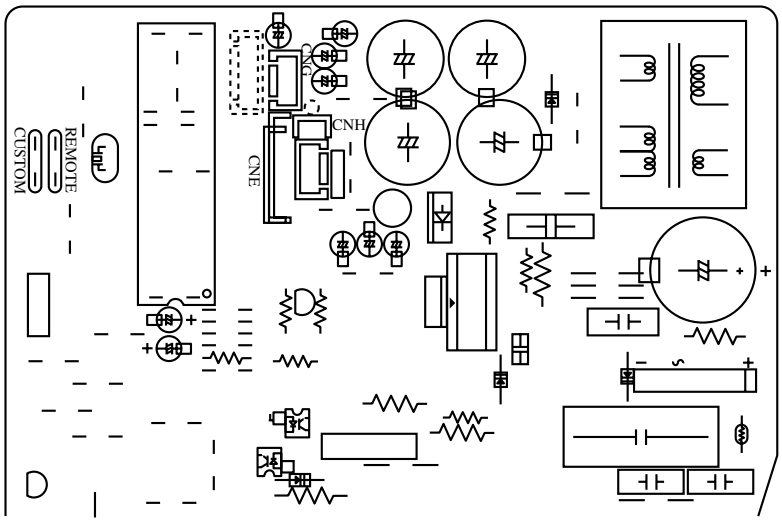
(1) Operation contents



(2) Modification method

Cut the jumper wire for the “REMOTE” section on the printed circuit board.

Carefully position the jumper wire so that it does not come in contact with other parts.



PARTS LIST

MODELS SRK10CDV-1 SRK10CDV-4 SRK13CDV-1 SRK13CDV-4

FOREWORD

・Herein compiled list covers the following component part

Indoor Unit	Outdoor Unit
SRK10CDV-1	SRC10CDV-1
SRK10CDV-4	SRC10CDV-4
SRK13CDV-1	SRC13CDV-1
SRK13CDV-4	SRC13CDV-4

・Such marketing parts as bolt, nut, insulation, adhesive etc. are not listed in this manual.
・Parts No. might be subject to change without advance notice. Correct this parts list when changes are informed with Parts Information.
・This parts list is to be correct when there are differences between this parts list and the previously published one according to parts number, quantity, etc.

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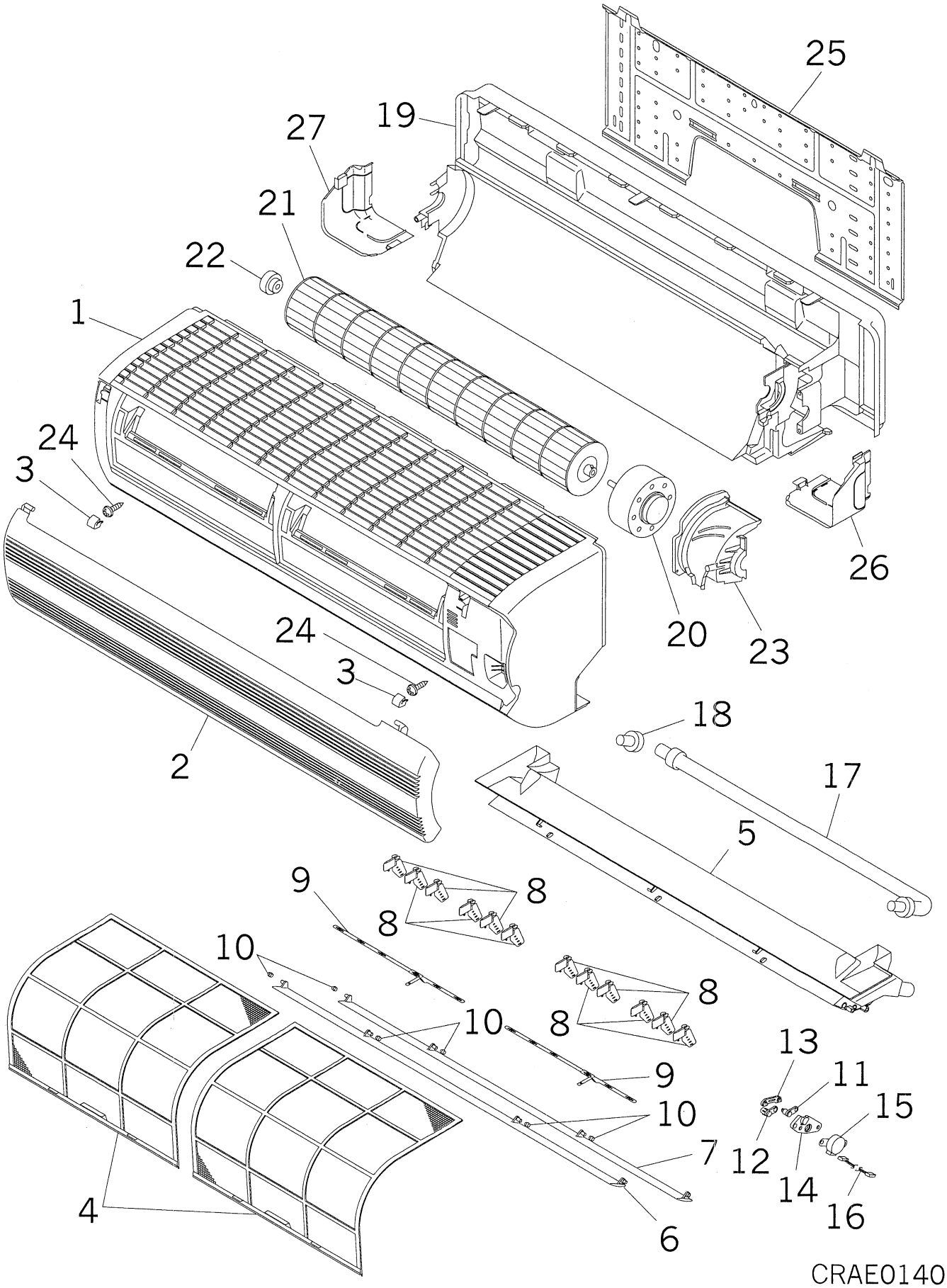
1. SRK10CDV-1, SRC10CDV-1 SRK10CDV-4, SRC10CDV-4 ----------	90
1. SRK13CDV-1, SRC13CDV-1 SRK13CDV-4, SRC13CDV-4 ----------	98

Drawing No. of Final Assy

Model	No.	Model	No.
SRK10CDV-1	RMA002F003A	SRC10CDV-1	RMC003F003A
SRK10CDV-4	RMA002F003K	SRC10CDV-4	RMC003F003C
SRK13CDV-1	RMA002F003C	SRC13CDV-1	RMC003F004A
SRK13CDV-4	RMA002F003L	SRC13CDV-4	RMC003F004G

PANEL & FAN ASSY

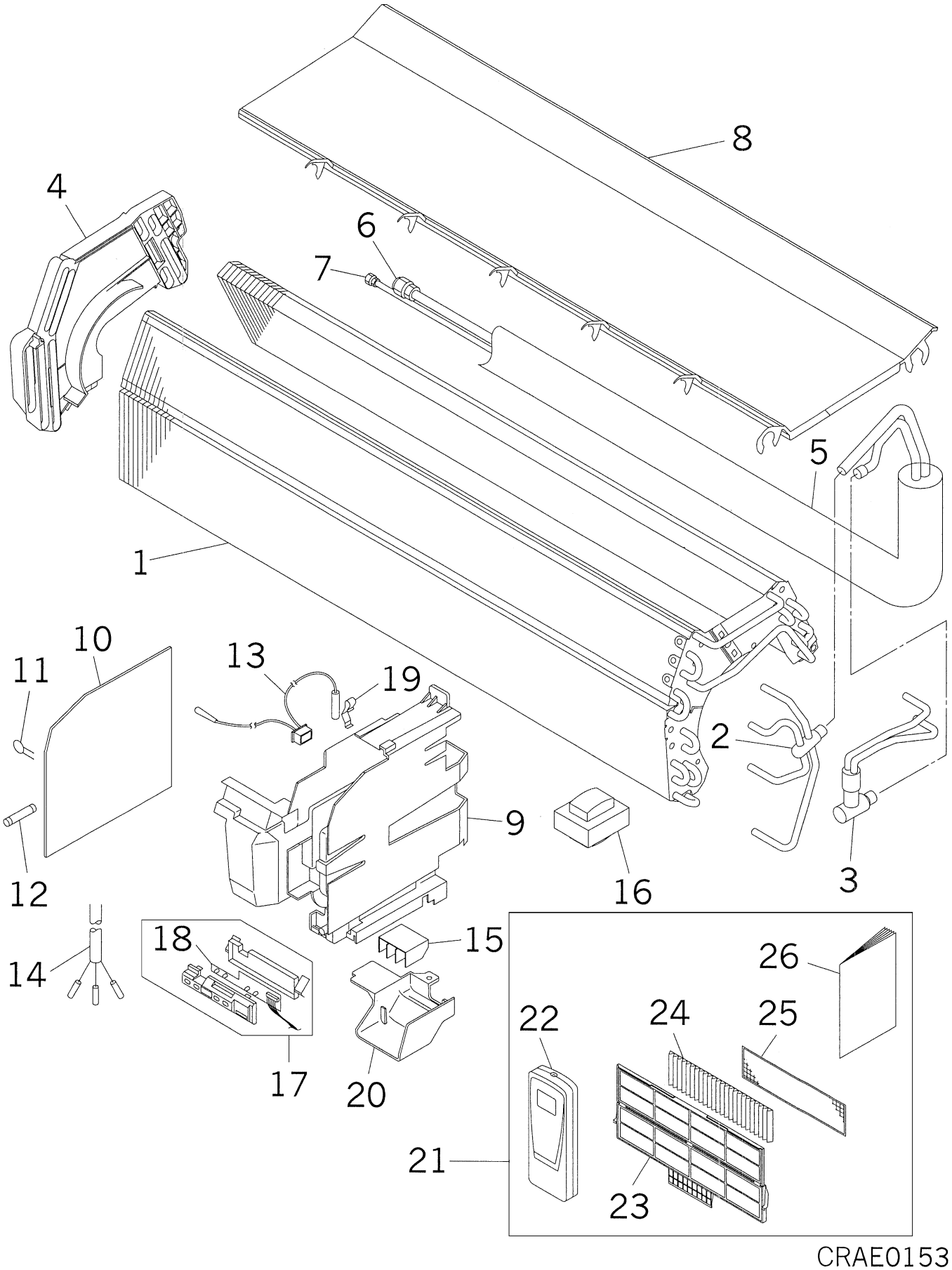


SRK10CDV-1,-4

Part No. :RMA002F003A,RMA002F003K

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~4	RMA102A003A (-1) RMA102A003C (-4)	PANEL ASSY,FRONT	0			0	1	1	2	
1	RKV122A100B (-1) RKV122A100D (-4)	PANEL,FRONT	0			0	1	1	2	
2	RKV435A501	GRILLE,AIR INLET	1			1	1	2	3	
3	RKV129A007	CAP	2			0	1	1	2	
4	RKV437A001	FILTER,AIR	1			1	2	4	8	
5~18	RKV435A101	GRILLE ASSY,AIR OUT	1			1	1	2	3	
5	RKV435A003	GRILLE,AIR OUTLET	0			1	1	2	3	
6	RKV436A100	FLAP(A)	1			1	1	2	3	
7	RKV436A101	FLAP(B)	1			1	1	2	3	
8~9	RKV436A102	LOUVER ASSY	1			1	1	2	3	
8	RKV436A103	LOUVER	0			1	1	2	3	
9	RKV129A003	PLATE,CONNECTING	0			0	1	1	2	
10	RKR935C001B	COLLAR	10							
11	RKV144A001	CRANK(A)	1			0	1	1	2	
12	RKV144A002	CRANK(B)	1			0	1	1	2	
13	RKV144A003	LINK	1			0	1	1	2	
14	RKV129A005	BRACKET,MOTOR	1			0	1	1	2	
15	SSA512T017	MOTOR,STEPPING	1							
16	RKS504A100F	HARNESS ASSY	1							
17	SSA423A091	HOSE,DRAIN	1			1	1	2	3	SSA423A094
18	SSA326A041	PLUG	5							
19	RKV111A001	BASE ASSY	1							
20	SSA511J218	MOTOR,AC	1			2	2	4	8	
21	SSA431G042	IMPELLER	1			1	2	4	8	SSA431G042A
22	SSA923C114	BEARING,PLANE	1			1	1	2	4	SSA923C091
23	RKV129A002	COVER(MOTOR)	1			0	1	1	2	
24	SSA913A007A	SCREW,TAP	10							
25	RKV032A001	PLATE,INSTALLATION	1							
26	RKV132A001A	LID(R)	1							
27	RKV132A002	LID(L)	1							

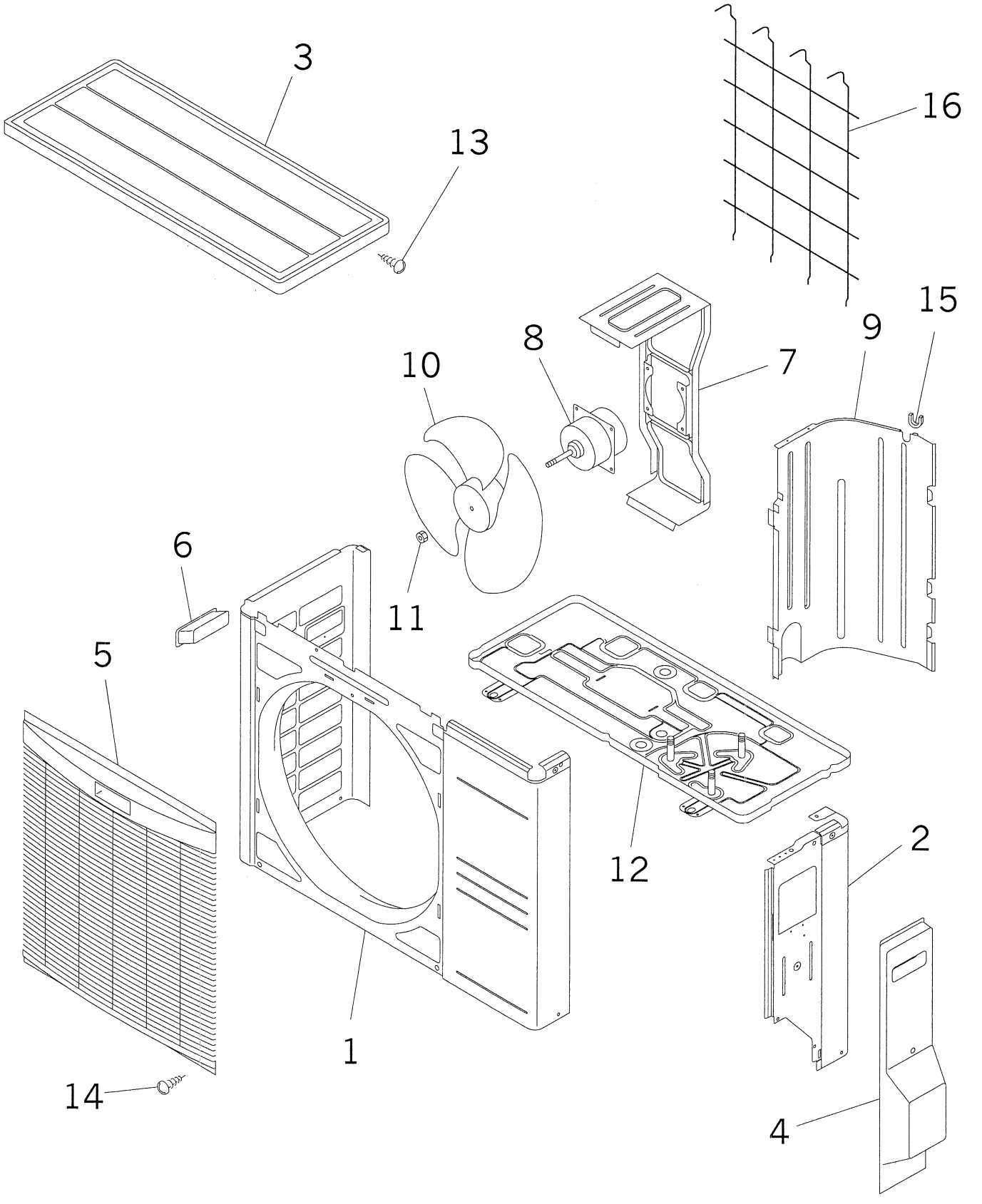
HEAT EXCH. & CONTROL



SRK10CDV-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~8	RKV301A500K	HEAT EXCH ASSY	1			0	0	0	1	
2	RKV315D501	HEADER ASSY	0							
3	RMA315A002	DISTRIBUTOR ASSY	0							
4	RKV129A001	BRACKET(L)	1			0	1	1	2	
5~7	RKV321A512A	PIPE ASSY	1							
6	SSA323F082	UNION(SLD)	1							
7	SSA323F082A	UNION(SLD)	1							
8	RKV129A004	PLATE,BAFFLE	1			0	1	1	2	
9	RKV142A500	BOX,CONTROL	1							
10~12	RKV505A500V	PWB ASSY	1			2	2	4	8	
11	SSA555B041B	VARISTOR	1			1	1	1	2	
12	SSA564A072	FUSE(CURRENT)	3			1	1	2	4	
13	SSA551A163F	SENSOR ASSY	1			1	1	2	4	
14	RKV504A500	HARNESS ASSY(POWER)	1							
15	SSA561B713	BLOCK,TERMINAL	0							
16	SSA554A441	TRANSFORMER	1			1	1	2	3	
17	RKV503A100A	DISPLAY ASSY	1			1	1	2	3	
18	RKV505A100A	PWB ASSY(DISPLAY)	0			2	2	4	8	
19	RKJ941F001	SPRING,LEAF	20							
20	RKV142A501	COVER	1							
21	RMA008A003A	PARTS,STANDARD	0							
22	RKT502A420	CONTROL ASSY,REMOTE	1			2	3	5	10	
23	RKT129A009	HOLDER,FILTER	2			0	1	1	2	
24	RKT437A009	FILTER,CLEAN	1			1	2	4	8	
25	RKT437A005	FILTER,LIGHT CLEAN	1			1	2	4	8	
26	RMA012A001A	MANUAL,INSTRUCTION	0							
27	RMA011F003A (-1) RMA011F003V (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY

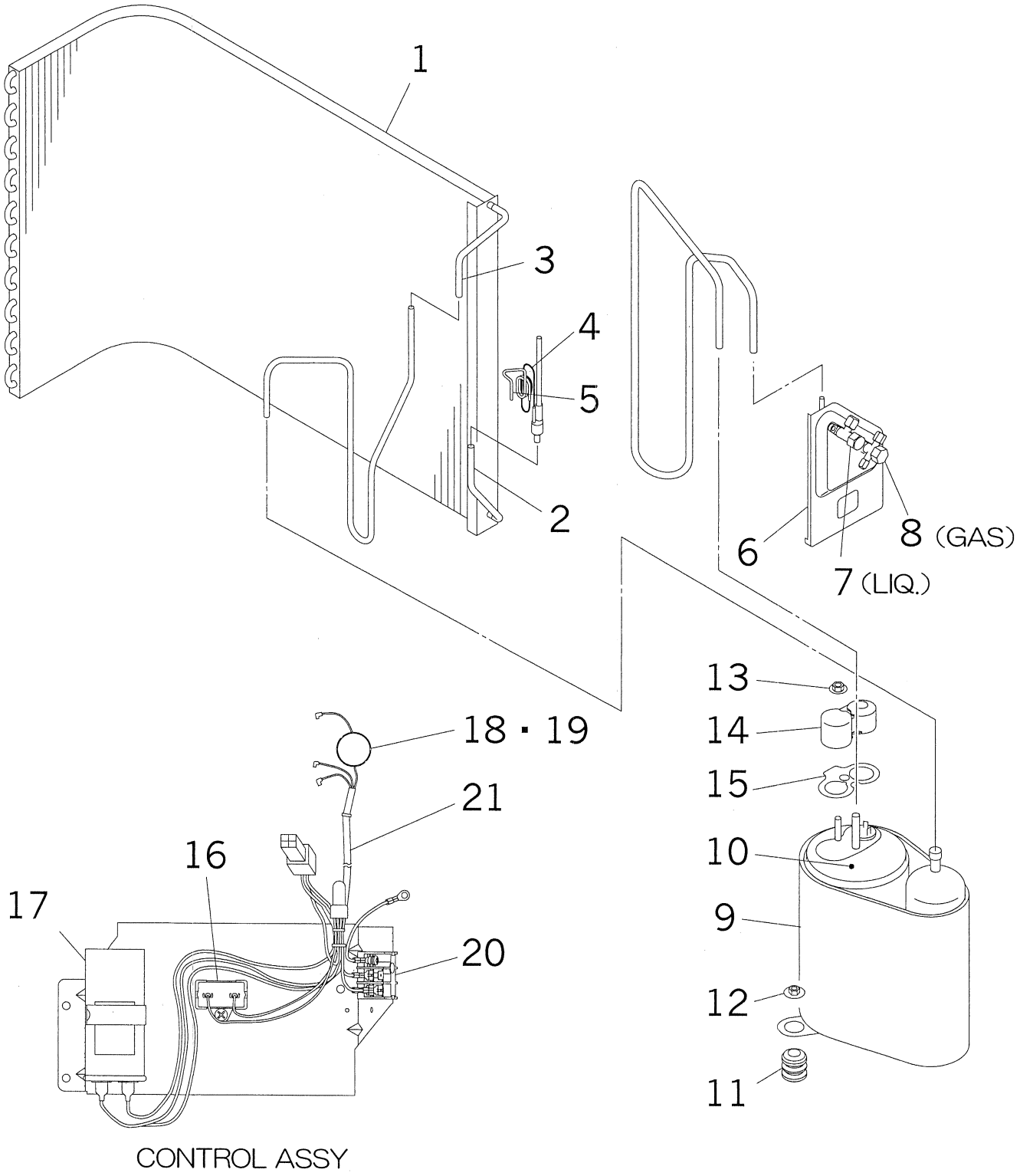


SRC10CDV-1,-4

Part No. :RMC003F003A,RMC003F003C

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RCP122A500	PANEL ASSY,FRONT	1			0	1	1	2	
2	RCP123A002	PANEL ASSY,SIDE	1			0	1	1	2	
3	RCP124A500	PANEL ASSY,TOP	1			0	1	1	2	
4	RCP132A001	PANEL,SERVICE	1							RCP132A002
5	RCP435A002A	GRILLE ASSY,AIR OUT	1			1	1	2	3	
6	SSA944B036	HANDLE	2							
7	RCP116A001	BRACKET,MOTOR	1			0	1	1	2	
8	SSA511C061C	MOTOR,AC	1			2	2	4	8	
9	RCP141A500	PLATE,BAFFLE	1							
10	SSA431B213	PROPELLER	1			1	2	4	8	
11	SSA914B007CC	NUT,TH	10							
12	RCP111A001	BASE ASSY	1							
13	SSA913A034B	SCREW,TAP	20							
14	SSA913A034C	SCREW,TAP	20							
15	SSA947B019	GROMMET	5							
16	RMC131A002	GUARD,FIN	1			0	1	1	2	

HEAT EXCH. & CONTROL



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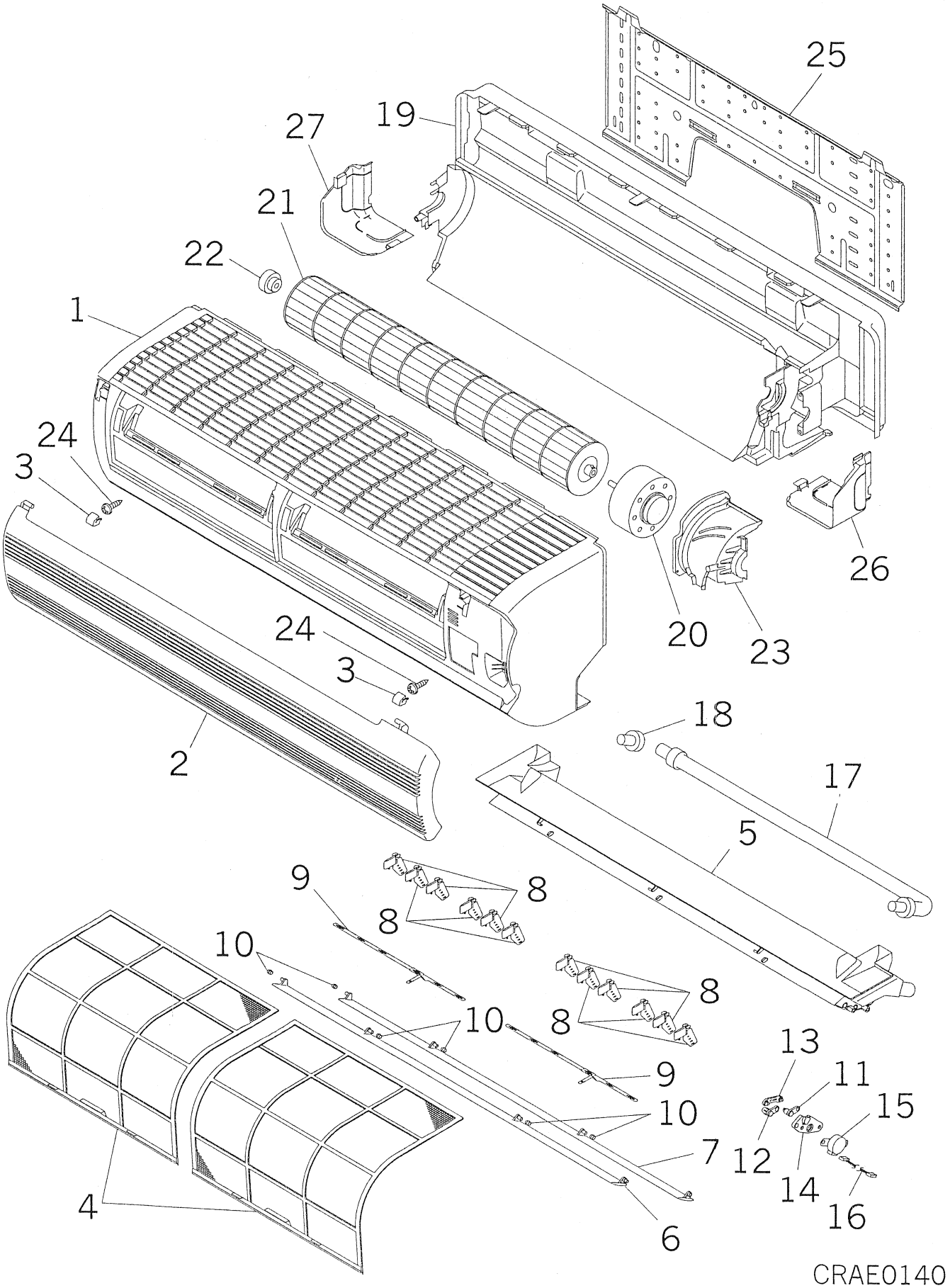
SRC10CDV-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~3	RCP301A001H	HEAT EXCH ASSY	1			0	0	0	1	
2	RCP321A001	PIPE	0							
3	RCP321A035A	PIPE	0							
4~5	RMC304A002	PIPING ASSY	0							
4	RMC315B001	CAPILLARY	0							
5	RMC315B005	CAPILLARY,SUB	0							
6	RCK116A002	BRACKET(VALVE)	1			0	1	1	2	
7	RMC381A001	VALVE,SERVICE(1/4")	1							
8	RMC381A002	VALVE,SERVICE(3/8")	1							
9	RCG151C008B	INSULATION,COMP	1							
10	RMC201A002	COMPRESSOR ASSY	1			1	1	2	8	
11	SSA941C241	CUSHION,RUBBER	1							
12	SSA914C013A	NUT,FLANGE	20							
13	SSA914C016	NUT,FLANGE	10							
14	RSA947K003	COVER,TERMINAL	1							
15	RSA932C002	GASKET,COVER	1							
16	SSA552A832	CAPACITOR,RUNNING	1			1	1	2	4	
17	SSA552A825	CAPACITOR,RUNNING	1			1	1	2	4	
18	RMC533B001	PROTECTOR,MOTOR	1			1	1	2	3	
19	AHA941D003	SPRING(PROTECTOR)	10							
20	SSA561B713	BLOCK,TERMINAL	0							
21	RWC504A083A	WIRING ASSY	0							
22	RMC011F002A (-1) RMC011F002T (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY

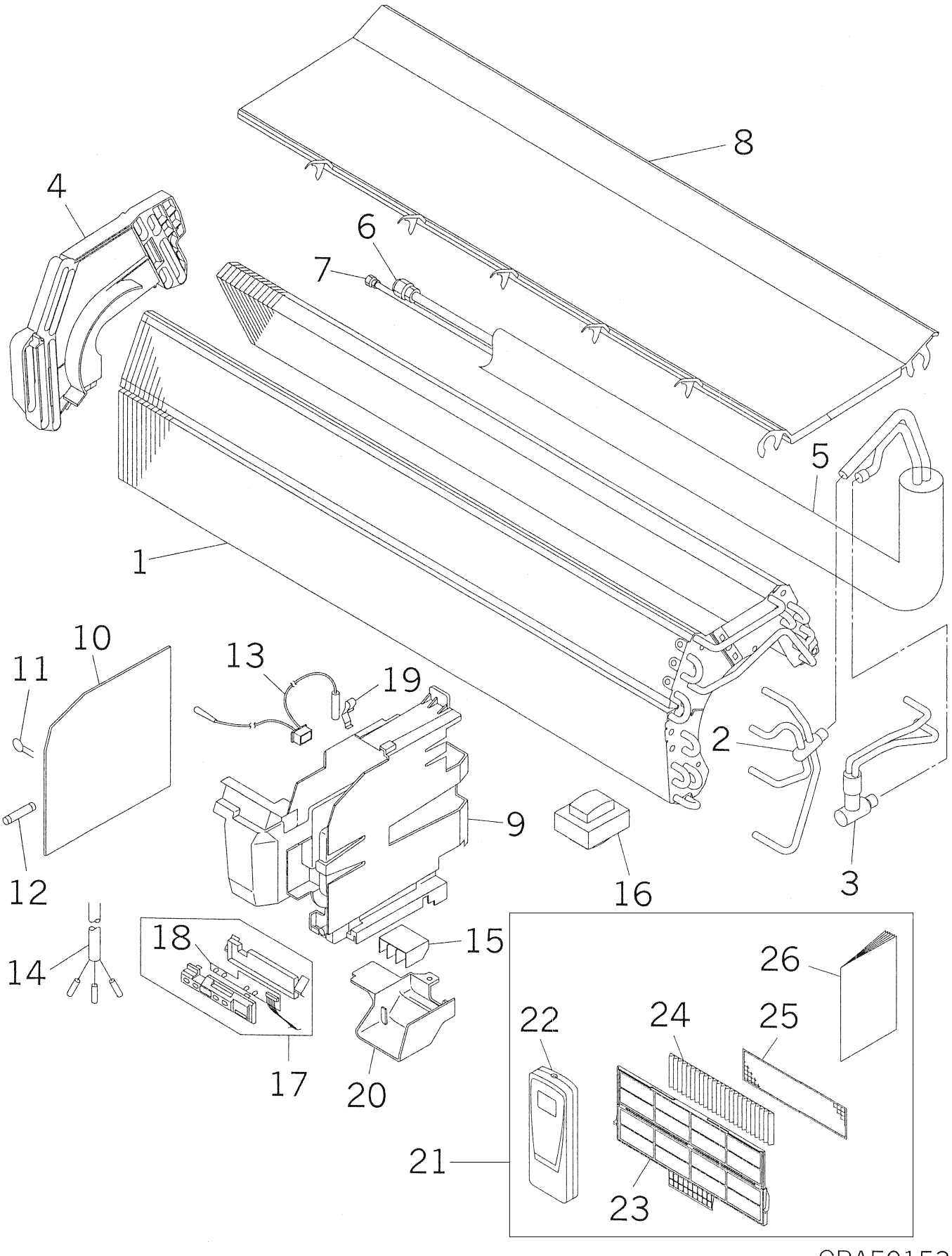


SRK13CDV-1,-4

Part No. :RMA002F003C,RMA002F003L

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~4	RMA102A003A (-1) RMA102A003C (-4)	PANEL ASSY,FRONT	0			0	1	1	2	
1	RKV122A100B (-1) RKV122A100D (-4)	PANEL,FRONT	0			0	1	1	2	
2	RKV435A501	GRILLE,AIR INLET	1			1	1	2	3	
3	RKV129A007	CAP	2			0	1	1	2	
4	RKV437A001	FILTER,AIR	1			1	2	4	8	
5~18	RKV435A101	GRILLE ASSY,AIR OUT	1			1	1	2	3	
5	RKV435A003	GRILLE,AIR OUTLET	0			1	1	2	3	
6	RKV436A100	FLAP(A)	1			1	1	2	3	
7	RKV436A101	FLAP(B)	1			1	1	2	3	
8~9	RKV436A102	LOUVER ASSY	1			1	1	2	3	
8	RKV436A103	LOUVER	0			1	1	2	3	
9	RKV129A003	PLATE,CONNECTING	0			0	1	1	2	
10	RKR935C001B	COLLAR	10							
11	RKV144A001	CRANK(A)	1			0	1	1	2	
12	RKV144A002	CRANK(B)	1			0	1	1	2	
13	RKV144A003	LINK	1			0	1	1	2	
14	RKV129A005	BRACKET,MOTOR	1			0	1	1	2	
15	SSA512T017	MOTOR,STEPPING	1							
16	RKS504A100F	HARNESS ASSY	1							
17	SSA423A091	HOSE,DRAIN	1			1	1	2	3	SSA423A094
18	SSA326A041	PLUG	5							
19	RKV111A001	BASE ASSY	1							
20	SSA511J218	MOTOR,AC	1			2	2	4	8	
21	SSA431G042	IMPELLER	1			1	2	4	8	SSA431G042A
22	SSA923C114	BEARING,PLANE	1			1	1	2	4	SSA923C091
23	RKV129A002	COVER(MOTOR)	1			0	1	1	2	
24	SSA913A007A	SCREW,TAP	10							
25	RKV032A001	PLATE,INSTALLATION	1							
26	RKV132A001A	LID(R)	1							
27	RKV132A002	LID(L)	1							

HEAT EXCH. & CONTROL



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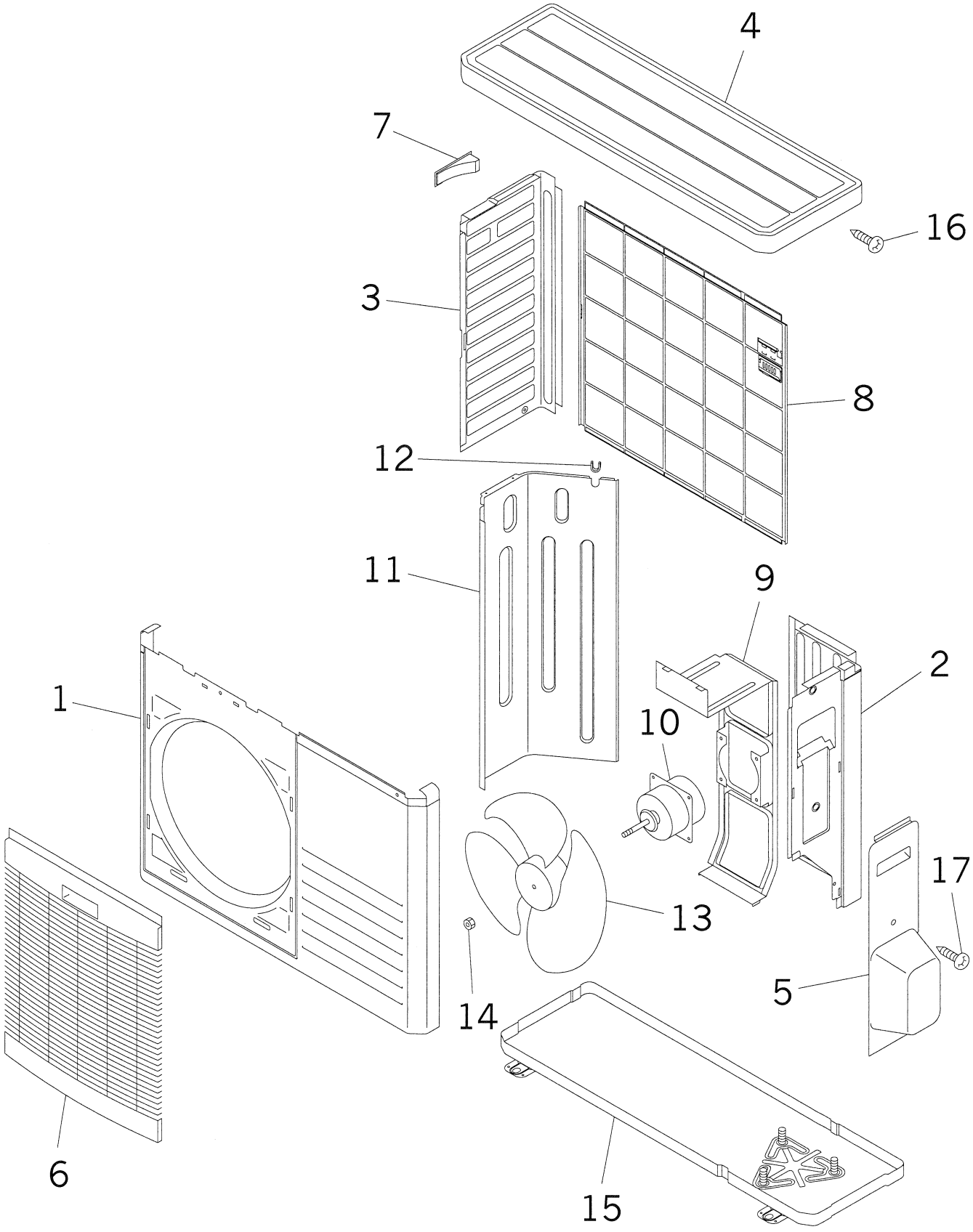
SRK13CDV-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~8	RKV301A500J	HEAT EXCH ASSY	1			0	0	0	1	
2	RKV315D501	HEADER ASSY	0							
3	RMA315A002	DISTRIBUTOR ASSY	0							
4	RKV129A001	BRACKET(L)	1			0	1	1	2	
5~7	RKV321A512B	PIPE ASSY	0							
6	SSA323F082B	UNION(SLD)	1							
7	SSA323F082A	UNION(SLD)	1							
8	RKV129A004	PLATE,BAFFLE	1			0	1	1	2	
9	RKV142A500	BOX,CONTROL	1							
10~12	RKV505A500Y	PWB ASSY	1			2	2	4	8	
11	SSA555B041B	VARISTOR	1			1	1	1	2	
12	SSA564A072	FUSE(CURRENT)	3			1	1	2	4	
13	SSA551A163F	SENSOR ASSY	1			1	1	2	4	
14	RKV504A500	HARNESS ASSY(POWER)	1							
15	SSA561B713	BLOCK,TERMINAL	0							
16	SSA554A441	TRANSFORMER	1			1	1	2	3	
17	RKV503A100A	DISPLAY ASSY	1			1	1	2	3	
18	RKV505A100A	PWB ASSY(DISPLAY)	0			2	2	4	8	
19	RKJ941F001	SPRING,LEAF	20							
20	RKV142A501	COVER	1							
21	RMA008A003A	PARTS,STANDARD	0							
22	RKT502A420	CONTROL ASSY,REMOT	1			2	3	5	10	
23	RKT129A009	HOLDER,FILTER	2			0	1	1	2	
24	RKT437A009	FILTER,CLEAN	1			1	2	4	8	
25	RKT437A005	FILTER,LIGHT CLEAN	1			1	2	4	8	
26	RMA012A001A	MANUAL,INSTRUCTION	0							
27	RMA011F003C (-1) RMA011F003W (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY

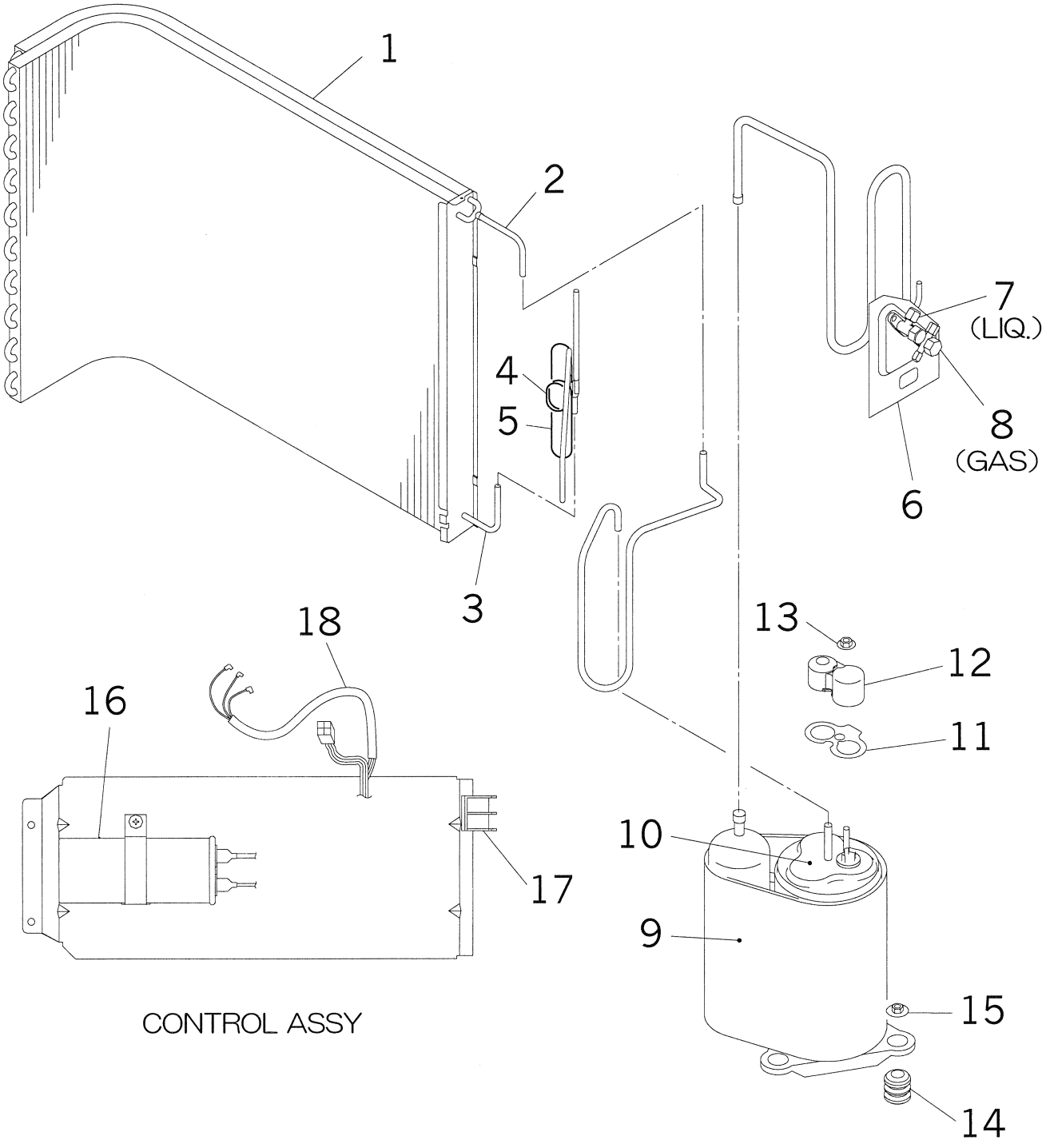


SRC13CDV-1,-4

Part No. :RMC003F004A,RMC003F004G

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RWC122A003	PANEL,FRONT	1			0	1	1	2	
2	RWC123A005	PANEL ASSY,SIDE(R)	1			0	1	1	2	
3	RWC123A002	PANEL,SIDE(L)	1			0	1	1	2	
4	RWC124A003	PANEL,TOP	1			0	1	1	2	
5	RWC132A005	PANEL,SERVICE	1							
6	RWC435A002	GRILLE,AIR OUTLET	1			1	1	2	3	
7	SSA944B036	HANDLE	2							
8	RWC131A004	GUARD,FIN	1			0	1	1	2	
9	RWC116A041	BRACKET,MOTOR	1			0	1	1	2	RWC116A041A
10	SSA511C063A	MOTOR,AC	1			2	2	4	8	
11	RWC141A002	PLATE,BAFFLE	1							
12	SSA947B019	GROMMET	5							
13	SSA431B233	PROPELLER	1			1	2	4	8	
14	SSA914B007AD	NUT,TH	2							
15	RWC111A003F	BASE ASSY	1							
16	SSA913A034B	SCREW,TAP	20							
17	SSA913A034C	SCREW,TAP	20							

HEAT EXCH. & CONTROL



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SRC13CDV-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~3	RWC301A022A	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2	RWC321A373	PIPE ASSY	0							
3	RWC321A374	PIPE ASSY	0							
4~5	RMC304A005	PIPING ASSY(CAPI)	1							
4	RCP315B002	CAPILLARY,SUB	0							
5	RMC315B003	CAPILLARY	0							
6	RCK116A002	BRACKET(VALVE)	1			0	1	1	2	
7	RCK381A501	VALVE,SERVICE(1/4")	1							
8	RWC381A012	VALVE,SERVICE(1/2")	1							
9	RCG151C021F	INSULATION ASSY,CO	0							
10	RMC201A001	COMPRESSOR ASSY	1			1	1	2	8	
11	RMC932C001	GASKET,COVER	0							
12	RMC947K001	COVER,TERMINAL	0							
13	RMC914C001	NUT,FLANGE	0							
14	RMC941C001	CUSHION,RUBBER	0							
15	SSA914C013	NUT,FLANGE	10							
16	SSA552A833	CAPACITOR,RUNNING	1			1	1	2	4	
17	SSA561B669	BLOCK,TERMINAL	1							
18	RWC504A081B	WIRING ASSY	0							
19	RMC011F002F (-1) RMC011F002V (-4)	LABEL,MODEL NAME	0							

MODELS SRK06CC-1 SRK06CC-4 SRK07CC-1 SRK07CC-4
SRK09CC-1 SRK09CC-4 SRK12CC-1 SRK12CC-4

FOREWORD

・Herein compiled list covers the following component part

Indoor Unit	Outdoor Unit
SRK06CC-1	SRC06CC-1
SRK06CC-4	SRC06CC-4
SRK07CC-1	SRC07CC-1
SRK07CC-4	SRC07CC-4
SRK09CC-1	SRC09CC-1
SRK09CC-4	SRC09CC-4
SRK12CC-1	SRC12CC-1
SRK12CC-4	SRC12CC-4

・Such marketing parts as bolt, nut, insulation, adhesive etc. are not listed in this manual.
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・This parts list is to be correct when there are differences between this parts list and the previously published one according to parts number, quantity, etc.

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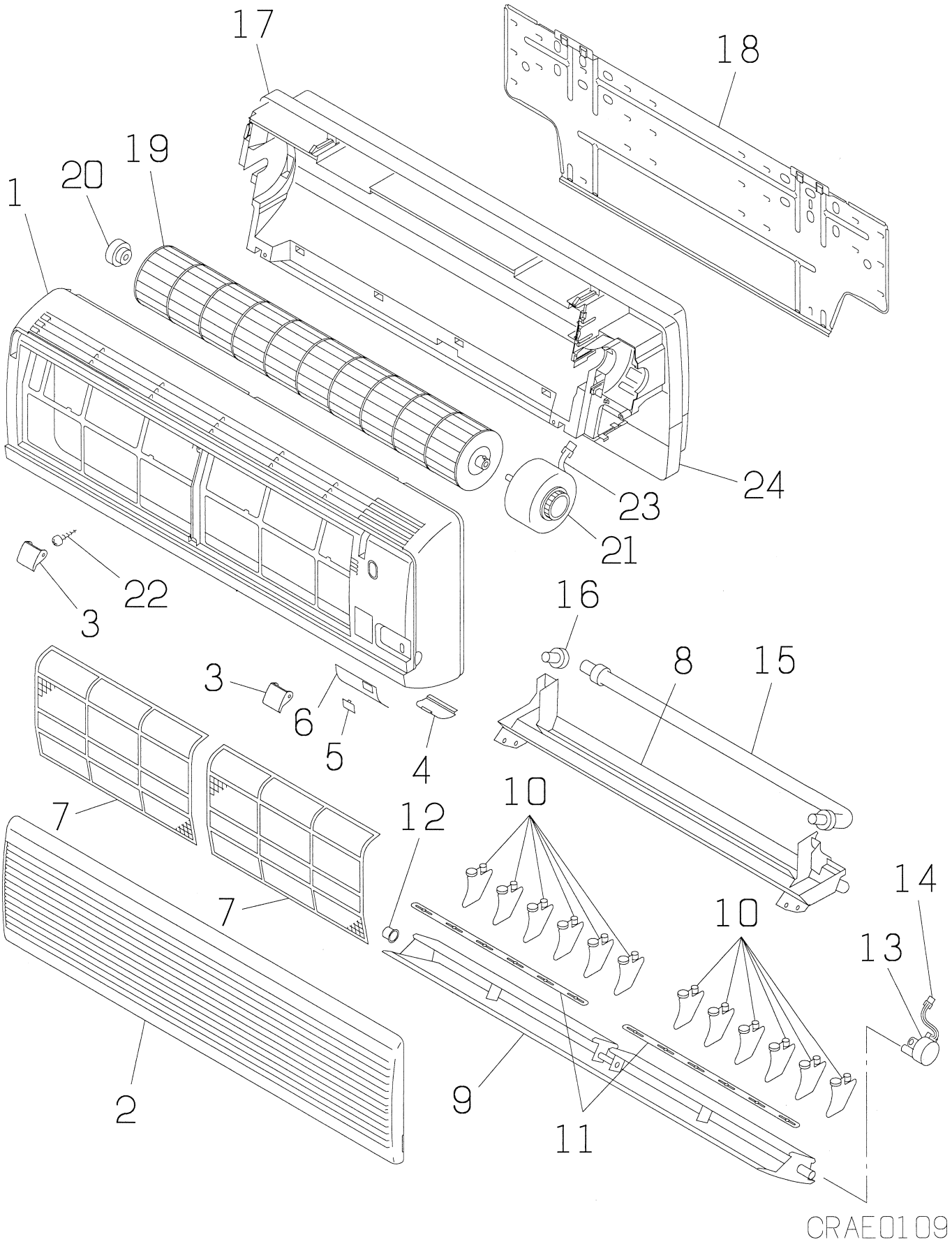
Drawing No. of Final Assy

Model	No.	Model	No.
SRK06CC-1	RWA002F033G	SRC06CC-1	RWC003F037G
SRK06CC-4	RWA002F033N	SRC06CC-4	RWC003F037N
SRK07CC-1	RWA002F033H	SRC07CC-1	RWC003F037H
SRK07CC-4	RWA002F033P	SRC07CC-4	RWC003F037P
SRK09CC-1	RWA002F033F	SRC09CC-1	RWC003F037F
SRK09CC-4	RWA002F033R	SRC09CC-4	RWC003F037R
SRK12CC-1	RWA002F037A	SRC12CC-1	RWC003F040A
SRK12CC-4	RWA002F037C	SRC12CC-4	RWC003F040C

PANEL & FAN ASSY



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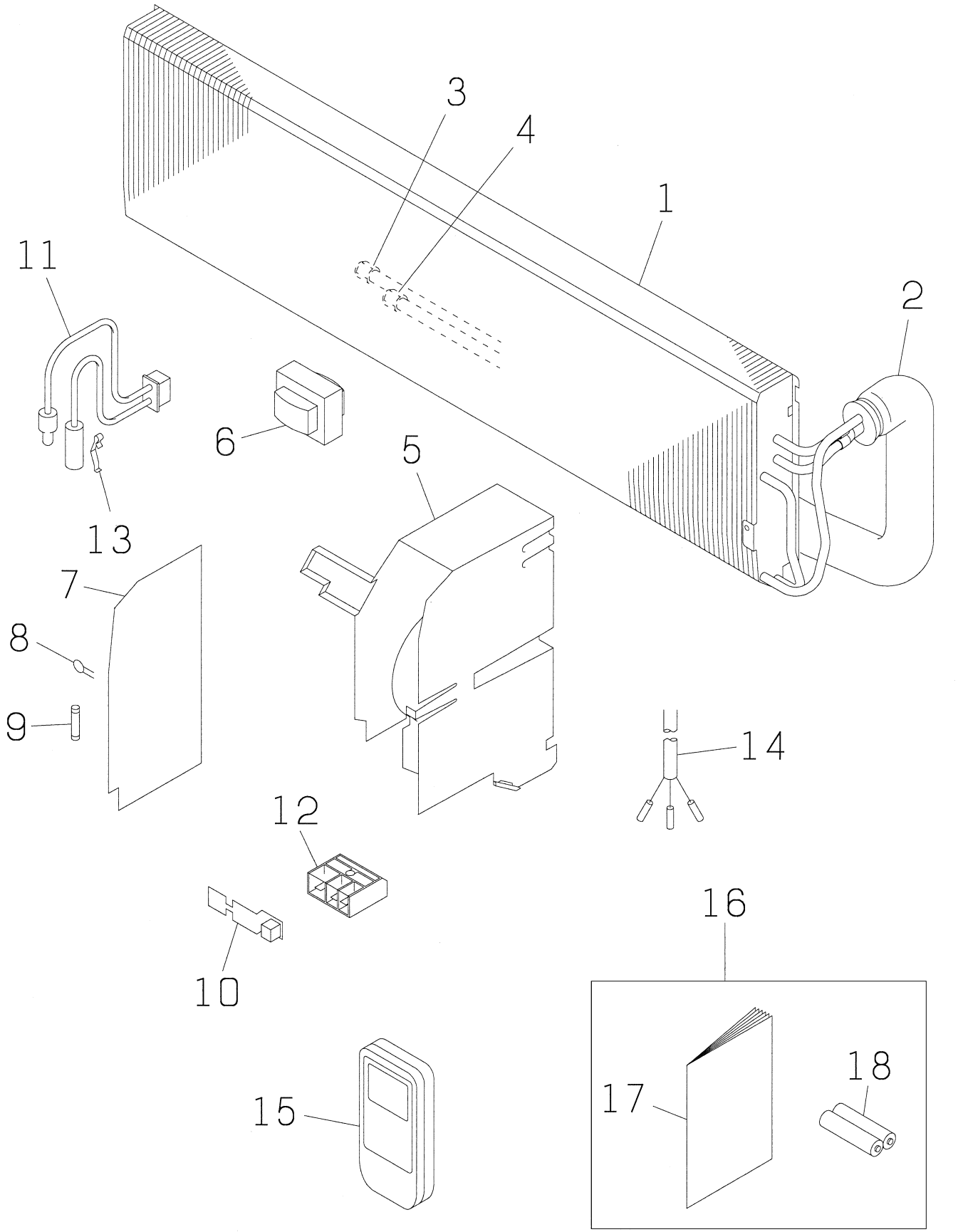
SRK06CC-1,-4

Part No. :RWA002F033G,RWA002F033N

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~7	RKS102A500AN (-1) RKS102A500AL (-4)	PANEL ASSY,FRONT	1			0	1	1	2	
1	RKS122A500	PANEL,FRONT	1			0	1	1	2	
2	RKS435A500A (-1) RKS435A500L (-4)	GRILLE,AIR INLET	1			1	1	2	3	
3	RKS129A500	CAP	2			0	1	1	2	
4	RKS129A501	PLATE	1			0	1	1	2	
5	RKS133A500	PLATE,ORNAMENT	1							
6	RKS133A501AP	PLATE,DISPLAY	1							
7	RKS437A500	FILTER,AIR	1			1	2	4	8	RKS437A500A
8~16	RKS435A501	GRILLE ASSY,AIR OUT	1			1	1	2	3	
8	RKS435A502	GRILLE,AIR OUTLET	1			1	1	2	3	
9	RKS436A500	FLAP	2			1	1	2	3	
10~11	RKS436A501	LOUVER ASSY	1			1	1	2	3	
10	RKS436A502	LOUVER	1			1	1	2	3	
11	RKS129A502	PLATE,CONNECTING	2			0	1	1	2	
12	RKR935C001	COLLAR	1							
13	SSA512T017	MOTOR,STEPPING	1							
14	RKS504A500	HARNESS ASSY	1							
15	RSA423A002	HOSE,DRAIN	1			1	1	2	3	SSA423A062
16	SSA326A038	PLUG	5							
17	RKS111A500	BASE ASSY	1							
18	RKS032A500	PLATE,INSTALLATION	1							
19	SSA431G033	IMPELLER	1			1	2	4	8	SSA431G033A
20	SSA923C069	BEARING,PLANE	1			1	1	2	4	
21	SSA511C056	MOTOR,AC	1			2	2	4	8	
22	SSA913A007	SCREW,TAP	20							
23	RKN504A115A	HARNESS ASSY	1							
24	RKS132A500	LID(R)	1							

HEAT EXCH. & CONTROL



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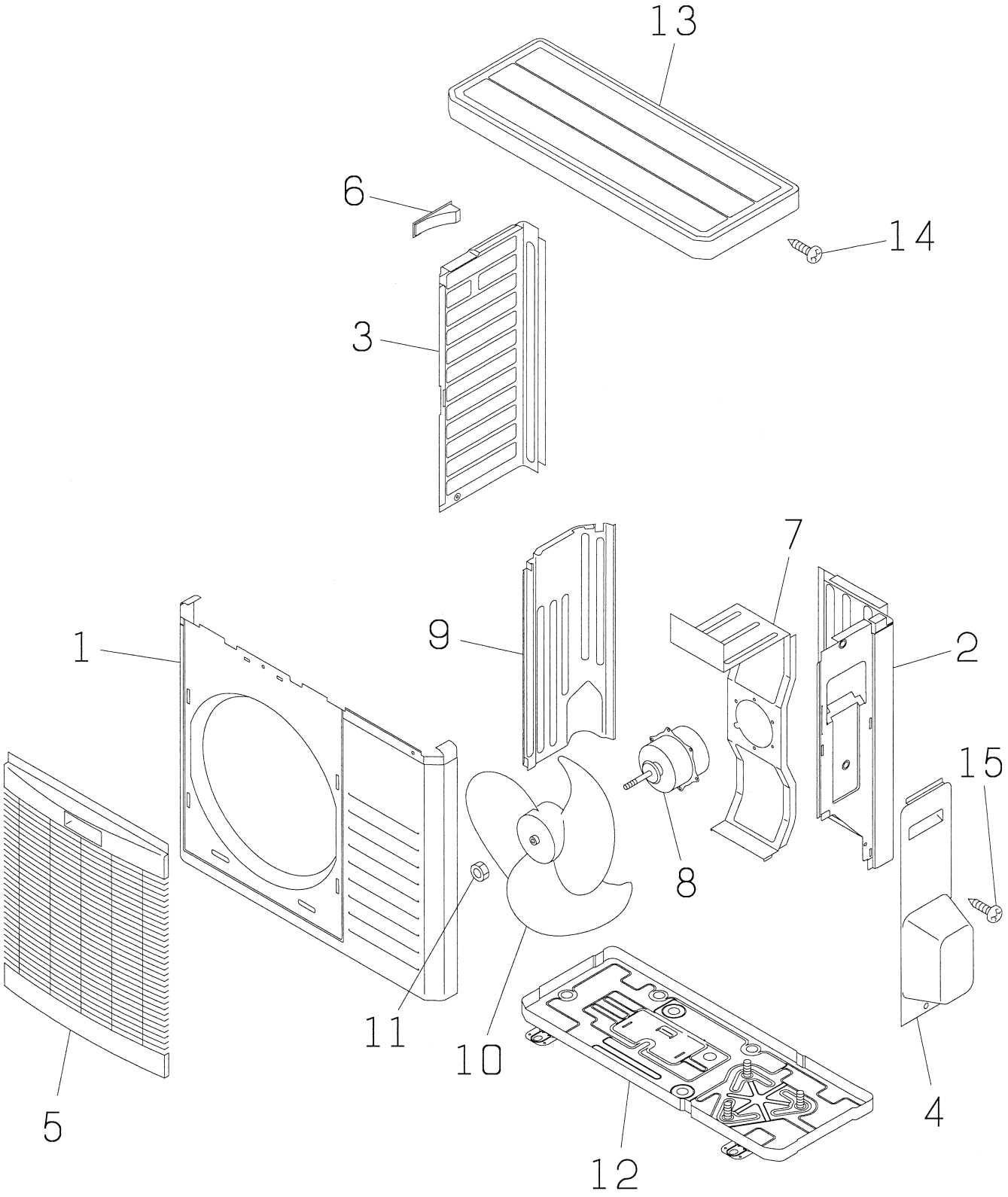
SRK06CC-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~4	RKS301A500A	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2~4	RKS321A500	PIPE ASSY	1							
3	SSA323F082A	UNION(SLD)	1							
4	SSA323F082	UNION(SLD)	1							
5	RKS142A500	BOX,CONTROL	1							
6	SSA554A443	TRANSFORMER	1			1	1	2	3	
7~9	RKS505A510CB	PWB ASSY	1			2	2	4	8	
8	SSA555B050A	VARISTOR	1			1	1	1	2	
9	SSA564A059B	FUSE(CURRENT)	1			1	1	2	4	SSA564A024B
10	RKS505A511	PWB ASSY(DISPLAY)	1			2	2	4	8	
11	RKH551A511K	SENSOR ASSY	1			1	1	2	4	RKH551A511D
12	SSA561B669	BLOCK,TERMINAL	1							
13	RKJ941F001	SPRING,LEAF	20							
14	RWA504A031	HARNESS ASSY	1							
15	RKS502A502A	CONTROL ASSY,REMOTE	1			2	3	5	10	
16	RWA008A931B	PARTS,STANDARD	0							
17	RWA012A210A	MANUAL,INSTRUCTION	1							
18	RKH549A500B	BATTERY ASSY	2							
19	RSA011F394G (-1) RMA011F003P (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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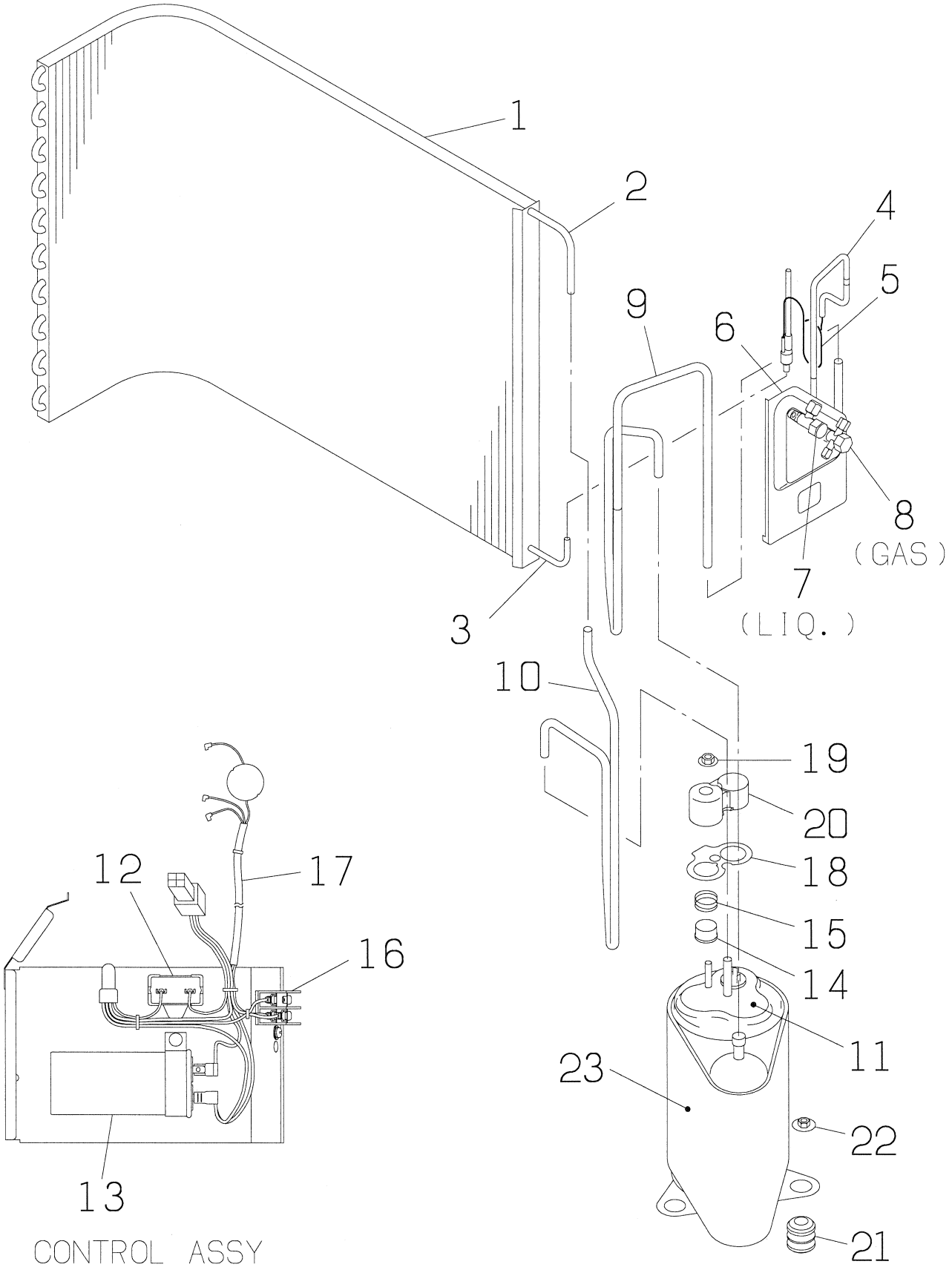
SRC06CC-1,-4

Part No. :RWC003F037G,RWC003F037N

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RCK122A502A	PANEL,FRONT	1			0	1	1	2	RCK122A502
2	RCK123A500A	PANEL ASSY,SIDE(R)	1			0	1	1	2	
3	RCK123A502	PANEL,SIDE(L)	1			0	1	1	2	
4	RCK132A501	PANEL,SERVICE	1							
5	RCK435A501A	GRILLE,AIR OUTLET	1			1	1	2	3	
6	SSA944B032	HANDLE	1							
7	RCK116A501	BRACKET,MOTOR	1			0	1	1	2	
8	SSA511T087C	MOTOR,AC	1			2	2	4	8	
9	RCK141A501	PLATE ASSY,BAFFLE	1							
10	SSA431B168	PROPELLER	1			1	2	4	8	
11	SSA914B007AD	NUT,TH	2							
12	RCK111A501	BASE ASSY	1							
13	RCK124A501B	PANEL ASSY,TOP	1			0	1	1	2	
14	SSA913A034B	SCREW,TAP	20							
15	SSA913A034C	SCREW,TAP	20							

HEAT EXCH. & CONTROL



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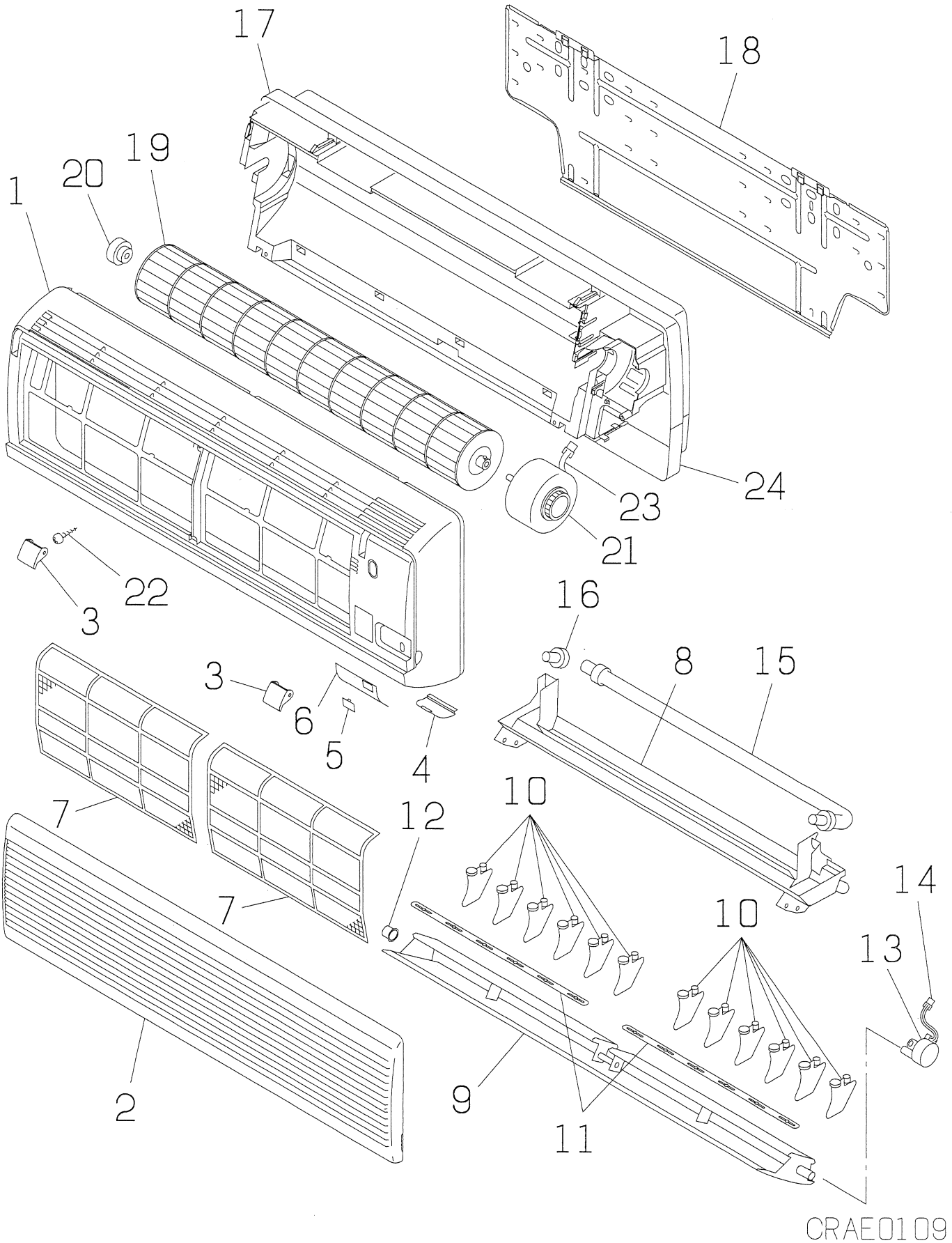
No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~3	RWC301A021	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2	RWC321A368	PIPE	0							
3	RWC321A369	PIPE	0							
4~5	RWC304A109	PIPING ASSY	1							
5	RWC315B092	CAPILLARY	1							
6	RCK116A002	BRACKET(VALVE)	1			0	1	1	2	
7	RCK381A501	VALVE,SERVICE(1/4")	1							
8	RCG381A703	VALVE,SERVICE(3/8")	1							RCG381A008A
9	RWC321A363	PIPING ASSY	0							
10	RWC321A370	PIPE,DISCHARGE	0							
11	AHT201A240N	COMPRESSOR ASSY	1			1	1	2	8	AHM201A240N
12	SSA552A491	CAPACITOR,RUNNING	1			1	1	2	4	SSA552A153
13	SSA552A825	CAPACITOR,RUNNING	1			1	1	2	4	
14	ASA533B149	PROTECTOR,MOTOR	1			1	1	2	3	
15	AHA941D003	SPRING(PROTECTOR)	10							
16	SSA561B669	BLOCK,TERMINAL	1							
17	RWC504A083	WIRING ASSY	1							
18	AHA932C002	GASKET,COVER	6							
19	SSA914C016	NUT,FLANGE	10							
20	RCG947K001	COVER,TERMINAL	3							AHA947K002
21	SSA941C241	CUSHION,RUBBER	1							
22	SSA914C013A	NUT,FLANGE	20							
23	RCG151C008B	INSULATION,COMP	1							
24	RSA011F393G (-1) RMC011F002P (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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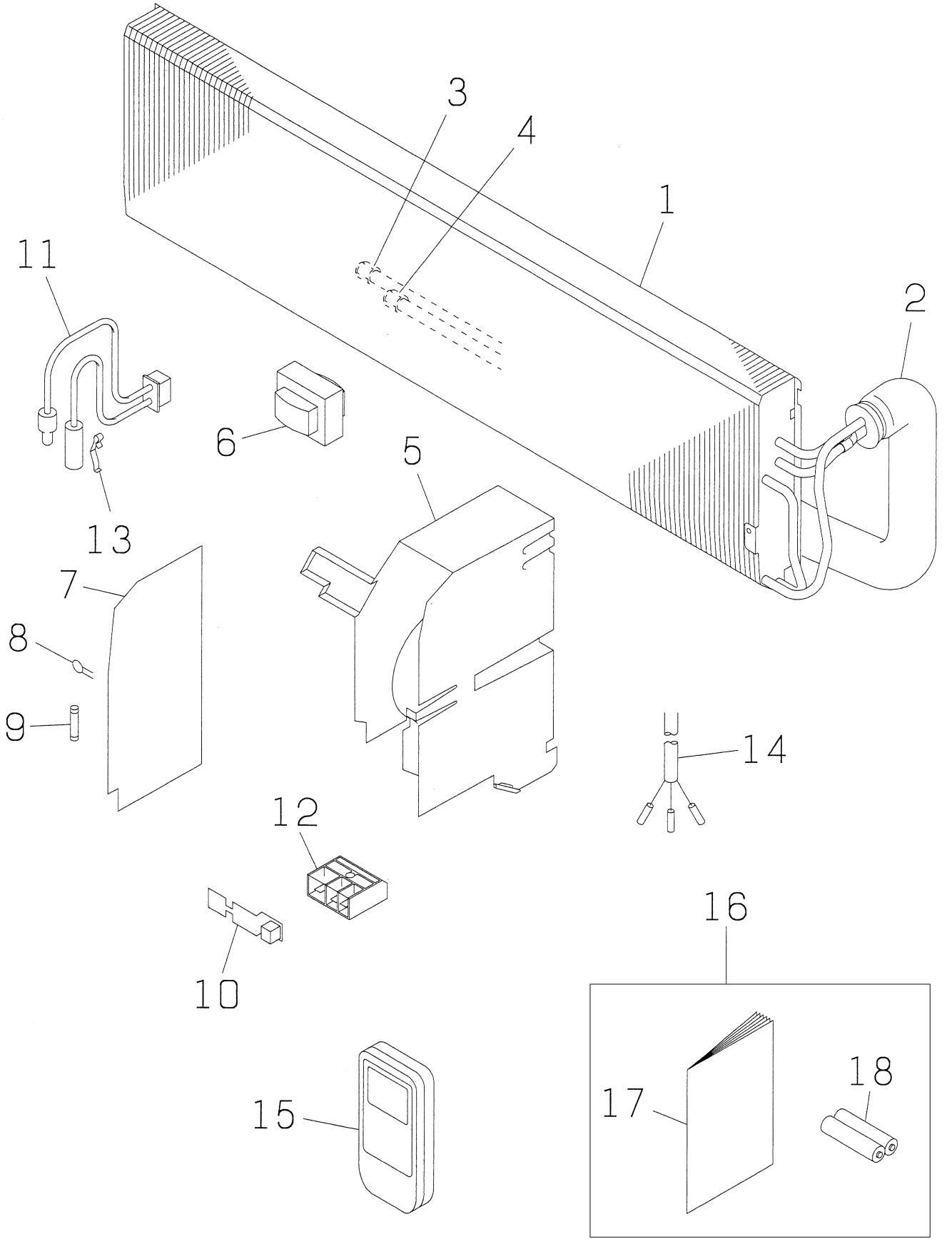
SRK07CC-1,-4

Part No. :RWA002F033H,RWA002F033P

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~7	RKS102A500AN (-1) RKS102A500AR (-4)	PANEL ASSY,FRONT	1			0	1	1	2	
1	RKS122A500	PANEL,FRONT	1			0	1	1	2	
2	RKS435A500A (-1) RKS435A500AL (-4)	GRILLE,AIR INLET	1			1	1	2	3	
3	RKS129A500	CAP	2			0	1	1	2	
4	RKS129A501	PLATE	1			0	1	1	2	
5	RKS133A500	PLATE,ORNAMENT	1							
6	RKS133A501AP	PLATE,DISPLAY	1							
7	RKS437A500	FILTER,AIR	1			1	2	4	8	RKS437A500A
8~16	RKS435A501	GRILLE ASSY,AIR OUT	1			1	1	2	3	
8	RKS435A502	GRILLE,AIR OUTLET	1			1	1	2	3	
9	RKS436A500	FLAP	2			1	1	2	3	
10~11	RKS436A501	LOUVER ASSY	1			1	1	2	3	
10	RKS436A502	LOUVER	1			1	1	2	3	
11	RKS129A502	PLATE,CONNECTING	2			0	1	1	2	
12	RKR935C001	COLLAR	1							
13	SSA512T017	MOTOR,STEPPING	1							
14	RKS504A500	HARNESS ASSY	1							
15	RSA423A002	HOSE,DRAIN	1			1	1	2	3	SSA423A062
16	SSA326A038	PLUG	5							
17	RKS111A500	BASE ASSY	1							
18	RKS032A500	PLATE,INSTALLATION	1							
19	SSA431G033	IMPELLER	1			1	2	4	8	SSA431G033A
20	SSA923C069	BEARING,PLANE	1			1	1	2	4	
21	SSA511C056	MOTOR,AC	1			2	2	4	8	
22	SSA913A007	SCREW,TAP	20							
23	RKN504A115A	HARNESS ASSY	1							
24	RKS132A500	LID(R)	1							

HEAT EXCH. & CONTROL



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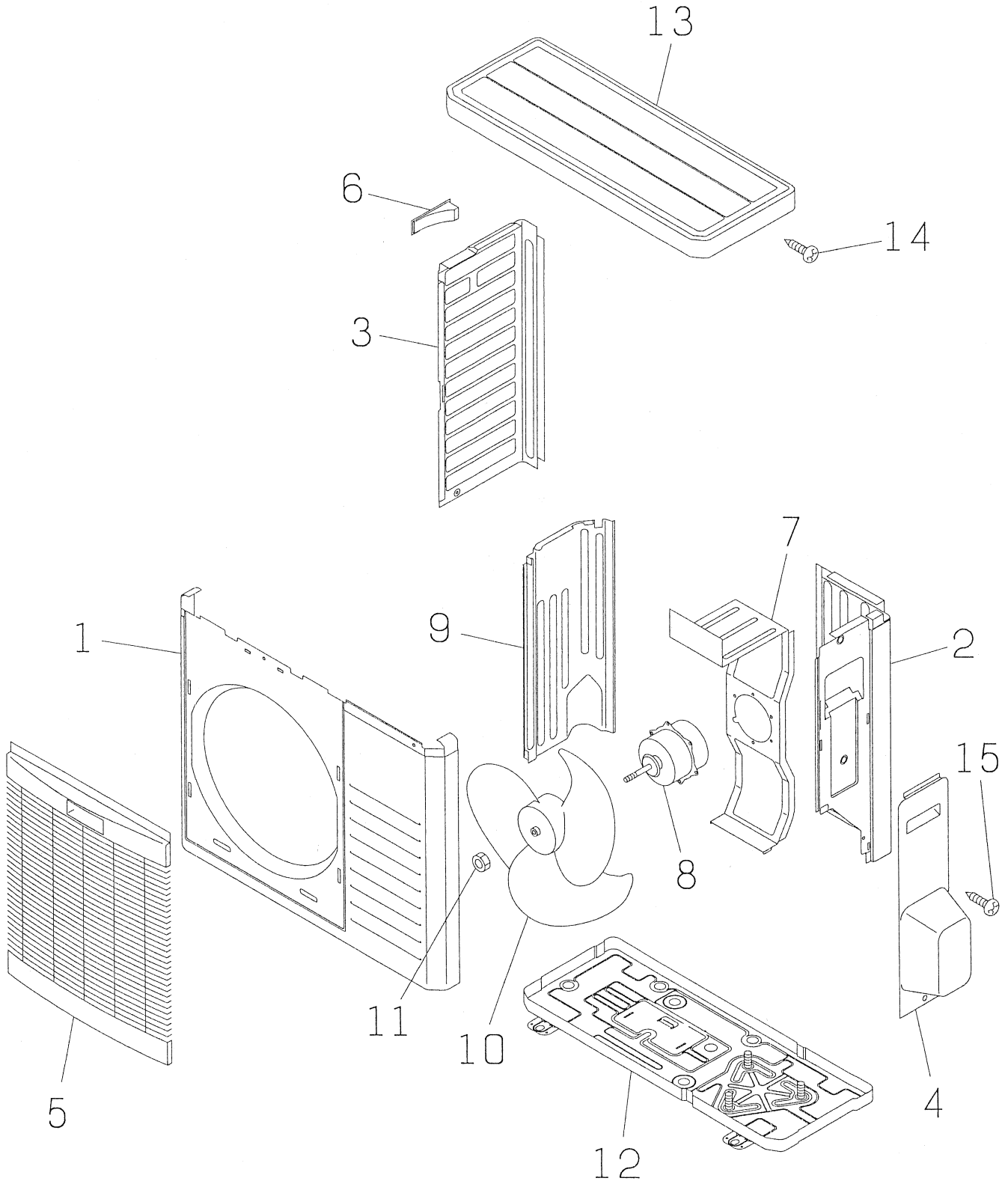
SRK07CC-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~4	RKS301A500A	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2~4	RKS321A500	PIPE ASSY	1							
3	SSA323F082A	UNION(SLD)	1							
4	SSA323F082	UNION(SLD)	1							
5	RKS142A500	BOX,CONTROL	1							
6	SSA554A443	TRANSFORMER	1			1	1	2	3	
7~9	RKS505A510CB	PWB ASSY	1			2	2	4	8	
8	SSA555B050A	VARISTOR	1			1	1	1	2	
9	SSA564A059B	FUSE(CURRENT)	1			1	1	2	4	SSA564A024B
10	RKS505A511	PWB ASSY(DISPLAY)	1			2	2	4	8	
11	RKH551A511K	SENSOR ASSY	1			1	1	2	4	RKH551A511D
12	SSA561B669	BLOCK,TERMINAL	1							
13	RKJ941F001	SPRING,LEAF	20							
14	RWA504A031	HARNESS ASSY	1							
15	RKS502A502A	CONTROL ASSY,REMOTE	1			2	3	5	10	
16	RWA008A931B	PARTS,STANDARD	0							
17	RWA012A210A	MANUAL,INSTRUCTION	1							
18	RKH549A500B	BATTERY ASSY	2							
19	RSA011F394H (-1) RMA011F003R (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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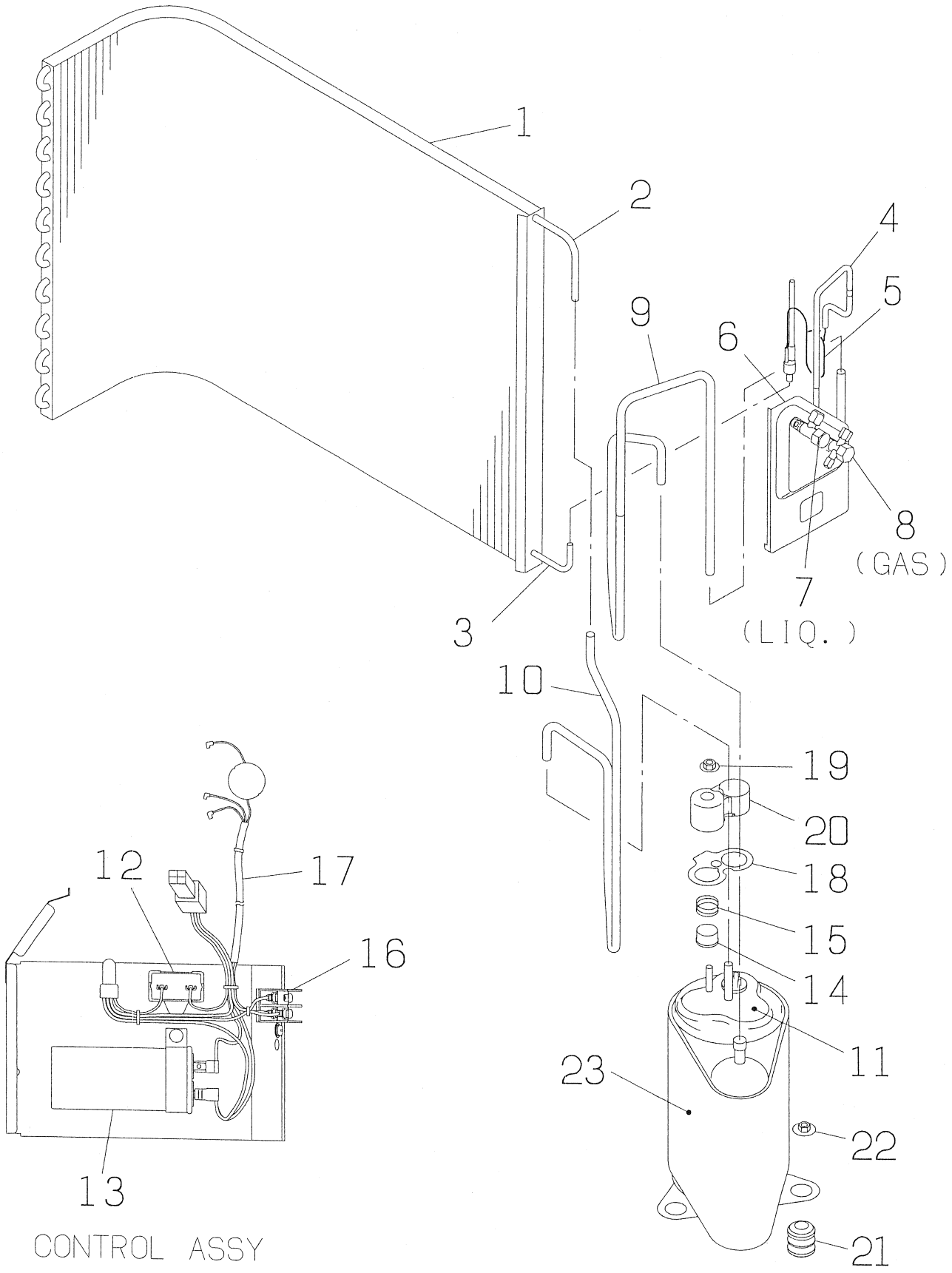
SRC07CC-1,-4

Part No. :RWC003F037H,RWC003F037P

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RCK122A502A	PANEL,FRONT	1			0	1	1	2	RCK122A502
2	RCK123A500A	PANEL ASSY,SIDE(R)	1			0	1	1	2	
3	RCK123A502	PANEL,SIDE(L)	1			0	1	1	2	
4	RCK132A501	PANEL,SERVICE	1							
5	RCK435A501A	GRILLE,AIR OUTLET	1			1	1	2	3	
6	SSA944B032	HANDLE	1							
7	RCK116A501	BRACKET,MOTOR	1			0	1	1	2	
8	SSA511T087C	MOTOR,AC	1			2	2	4	8	
9	RCK141A501	PLATE ASSY,BAFFLE	1							
10	SSA431B168	PROPELLER	1			1	2	4	8	
11	SSA914B007AD	NUT,TH	2							
12	RCK111A501	BASE ASSY	1							
13	RCK124A501B	PANEL ASSY,TOP	1			0	1	1	2	
14	SSA913A034B	SCREW,TAP	20							
15	SSA913A034C	SCREW,TAP	20							

HEAT EXCH. & CONTROL



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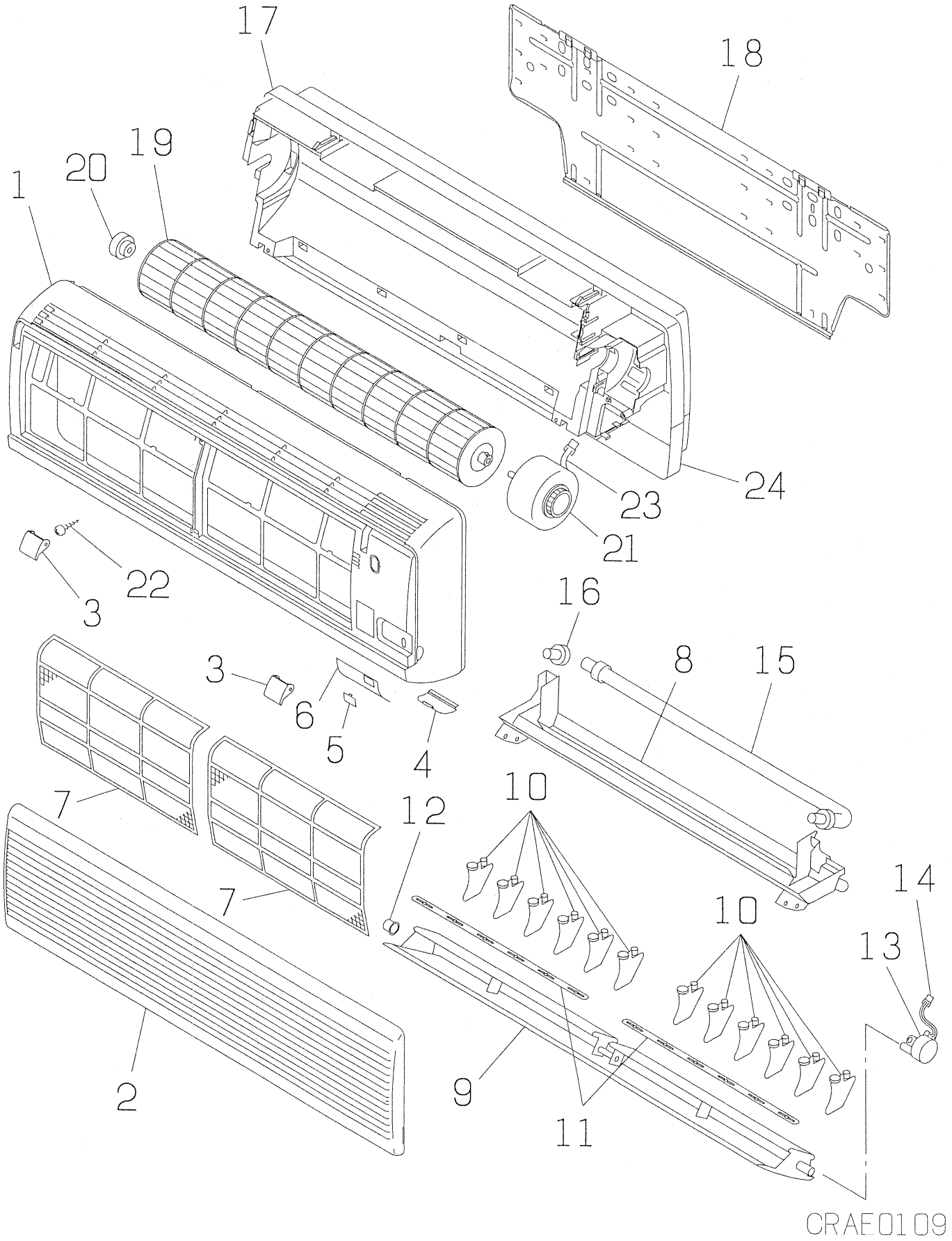
SRC07CC-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~3	RWC301A021	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2	RWC321A368	PIPE	0							
3	RWC321A369	PIPE	0							
4~5	RWC304A109	PIPING ASSY	1							
5	RWC315B092	CAPILLARY	1							
6	RCK116A002	BRACKET(VALVE)	1			0	1	1	2	
7	RCK381A501	VALVE,SERVICE(1/4")	1							
8	RCG381A703	VALVE,SERVICE(3/8")	1							RCG381A008A
9	RWC321A363	PIPING ASSY	0							
10	RWC321A370	PIPE,DISCHARGE	0							
11	AHT201A240N	COMPRESSOR ASSY	1			1	1	2	8	AHM201A240N
12	SSA552A491	CAPACITOR,RUNNING	1			1	1	2	4	SSA552A153
13	SSA552A825	CAPACITOR,RUNNING	1			1	1	2	4	
14	ASA533B149	PROTECTOR,MOTOR	1			1	1	2	3	
15	AHA941D003	SPRING(PROTECTOR)	10							
16	SSA561B669	BLOCK,TERMINAL	1							
17	RWC504A083	WIRING ASSY	1							
18	AHA932C002	GASKET,COVER	6							
19	SSA914C016	NUT,FLANGE	10							
20	RCG947K001	COVER,TERMINAL	3							AHA947K002
21	SSA941C241	CUSHION,RUBBER	1							
22	SSA914C013A	NUT,FLANGE	20							
23	RCG151C008B	INSULATION,COMP	1							
24	RSA011F393H (-1) RMC011F002R (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



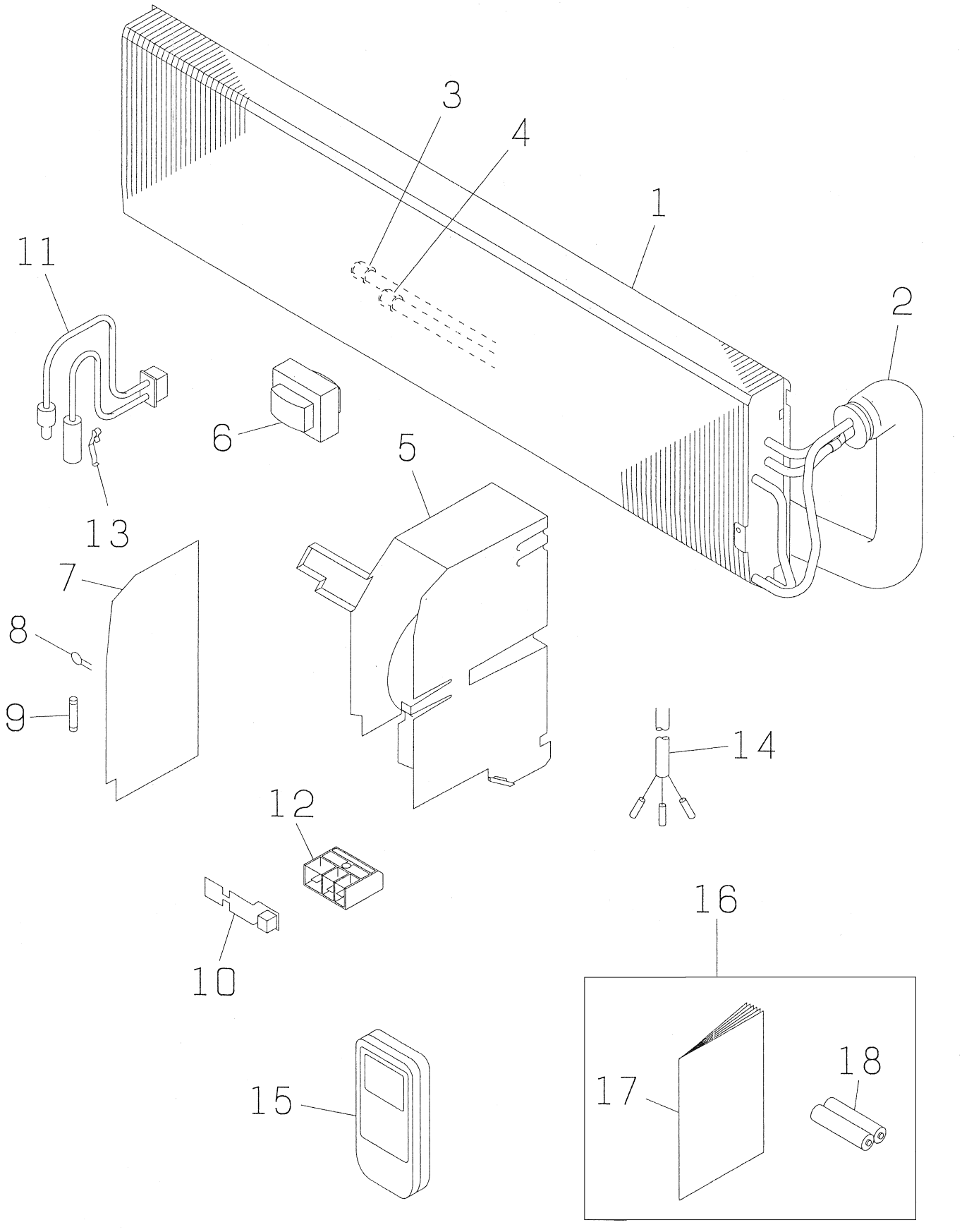
CAD

SRK09CC-1,-4

Part No. :RWA002F033F,RWA002F033R

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~7	RKS102A500AN (-1) RKS102A500AR (-4)	PANEL ASSY,FRONT	1			0	1	1	2	
1	RKS122A500	PANEL,FRONT	1			0	1	1	2	
2	RKS435A500A (-1) RKS435A500L (-4)	GRILLE,AIR INLET	1			1	1	2	3	
3	RKS129A500	CAP	2			0	1	1	2	
4	RKS129A501	PLATE	1			0	1	1	2	
5	RKS133A500	PLATE,ORNAMENT	1							
6	RKS133A501AP	PLATE,DISPLAY	1							
7	RKS437A500	FILTER,AIR	1			1	2	4	8	RKS437A500A
8~16	RKS435A501	GRILLE ASSY,AIR OUT	1			1	1	2	3	
8	RKS435A502	GRILLE,AIR OUTLET	1			1	1	2	3	
9	RKS436A500	FLAP	2			1	1	2	3	
10~11	RKS436A501	LOUVER ASSY	1			1	1	2	3	
10	RKS436A502	LOUVER	1			1	1	2	3	
11	RKS129A502	PLATE,CONNECTING	2			0	1	1	2	
12	RKR935C001	COLLAR	1							
13	SSA512T017	MOTOR,STEPPING	1							
14	RKS504A500	HARNESS ASSY	1							
15	RSA423A002	HOSE,DRAIN	1			1	1	2	3	SSA423A062
16	SSA326A038	PLUG	5							
17	RKS111A500	BASE ASSY	1							
18	RKS032A500	PLATE,INSTALLATION	1							
19	SSA431G033	IMPELLER	1			1	2	4	8	SSA431G033A
20	SSA923C069	BEARING,PLANE	1			1	1	2	4	
21	SSA511C056	MOTOR,AC	1			2	2	4	8	
22	SSA913A007	SCREW,TAP	20							
23	RKN504A115A	HARNESS ASSY	1							
24	RKS132A500	LID(R)	1							

HEAT EXCH. & CONTROL



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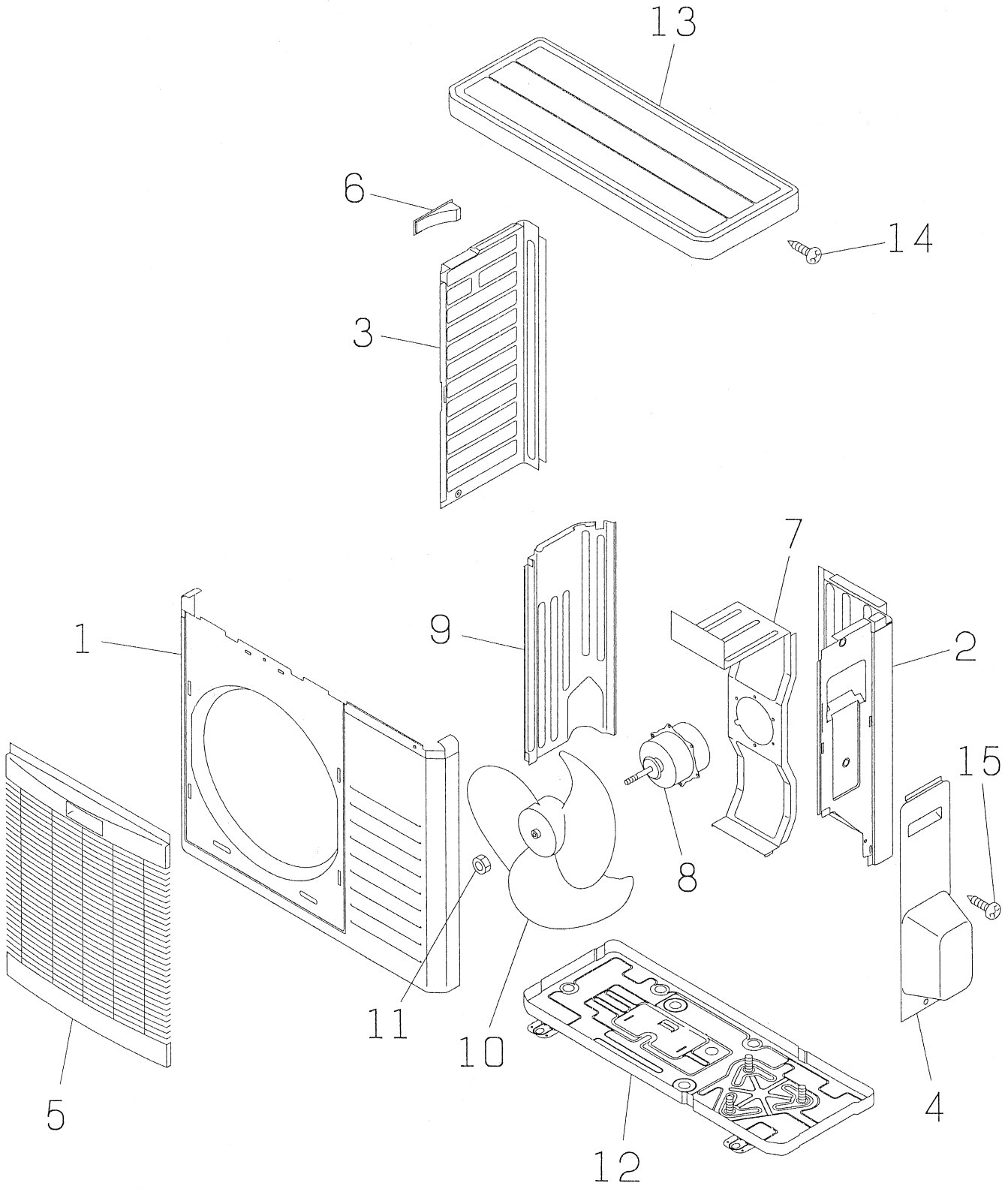
SRK09CC-1,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~4	RKS301A500A	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2~4	RKS321A500	PIPE ASSY	1							
3	SSA323F082A	UNION(SLD)	1							
4	SSA323F082	UNION(SLD)	1							
5	RKS142A500	BOX,CONTROL	1							
6	SSA554A443	TRANSFORMER	1			1	1	2	3	
7~9	RKS505A510CA	PWB ASSY	1			2	2	4	8	
8	SSA555B050A	VARISTOR	1			1	1	1	2	
9	SSA564A059B	FUSE(CURRENT)	1			1	1	2	4	SSA564A024B
10	RKS505A511	PWB ASSY(DISPLAY)	1			2	2	4	8	
11	RKH551A511K	SENSOR ASSY	1			1	1	2	4	RKH551A511D
12	SSA561B669	BLOCK,TERMINAL	1							
13	RKJ941F001	SPRING,LEAF	20							
14	RWA504A031	HARNESS ASSY	1							
15	RKS502A502A	CONTROL ASSY,REMOT	1			2	3	5	10	
16	RWA008A931B	PARTS,STANDARD	0							
17	RWA012A210A	MANUAL,INSTRUCTION	1							
18	RKH549A500B	BATTERY ASSY	2							
19	RSA011F394F (-1) RMA011F003N (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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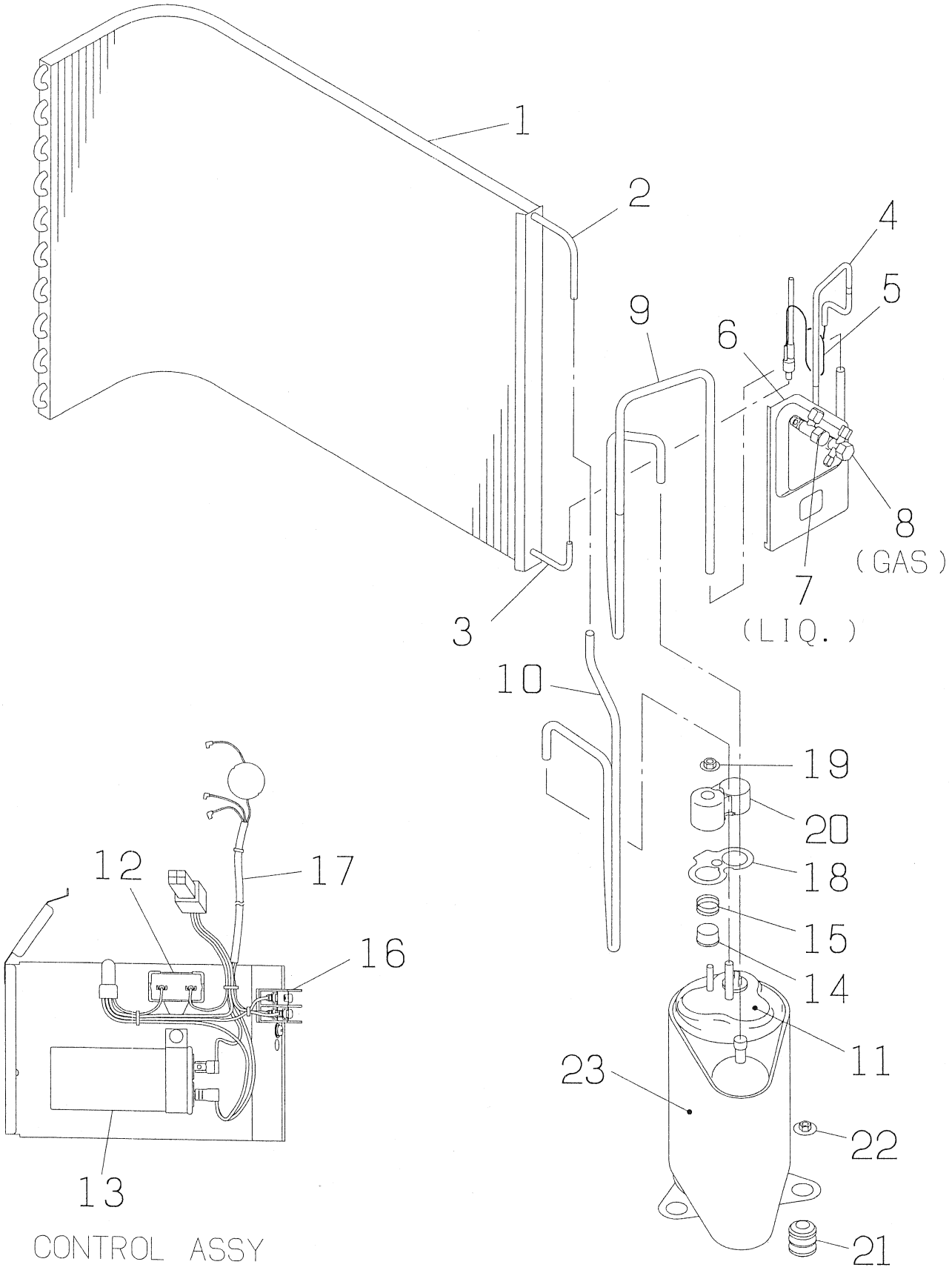
SRC09CC-1,-4

Part No. :RWC003F037F,RWC003F037R

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RCK122A502A	PANEL,FRONT	1			0	1	1	2	RCK122A502
2	RCK123A500A	PANEL ASSY,SIDE(R)	1			0	1	1	2	
3	RCK123A502	PANEL,SIDE(L)	1			0	1	1	2	
4	RCK132A501	PANEL,SERVICE	1							
5	RCK435A501A	GRILLE,AIR OUTLET	1			1	1	2	3	
6	SSA944B032	HANDLE	1							
7	RCK116A501	BRACKET,MOTOR	1			0	1	1	2	
8	SSA511T087C	MOTOR,AC	1			2	2	4	8	
9	RCK141A501	PLATE ASSY,BAFFLE	1							
10	SSA431B168	PROPELLER	1			1	2	4	8	
11	SSA914B007AD	NUT,TH	2							
12	RCK111A501	BASE ASSY	1							
13	RCK124A501B	PANEL ASSY,TOP	1			0	1	1	2	
14	SSA913A034B	SCREW,TAP	20							
15	SSA913A034C	SCREW,TAP	20							

HEAT EXCH. & CONTROL



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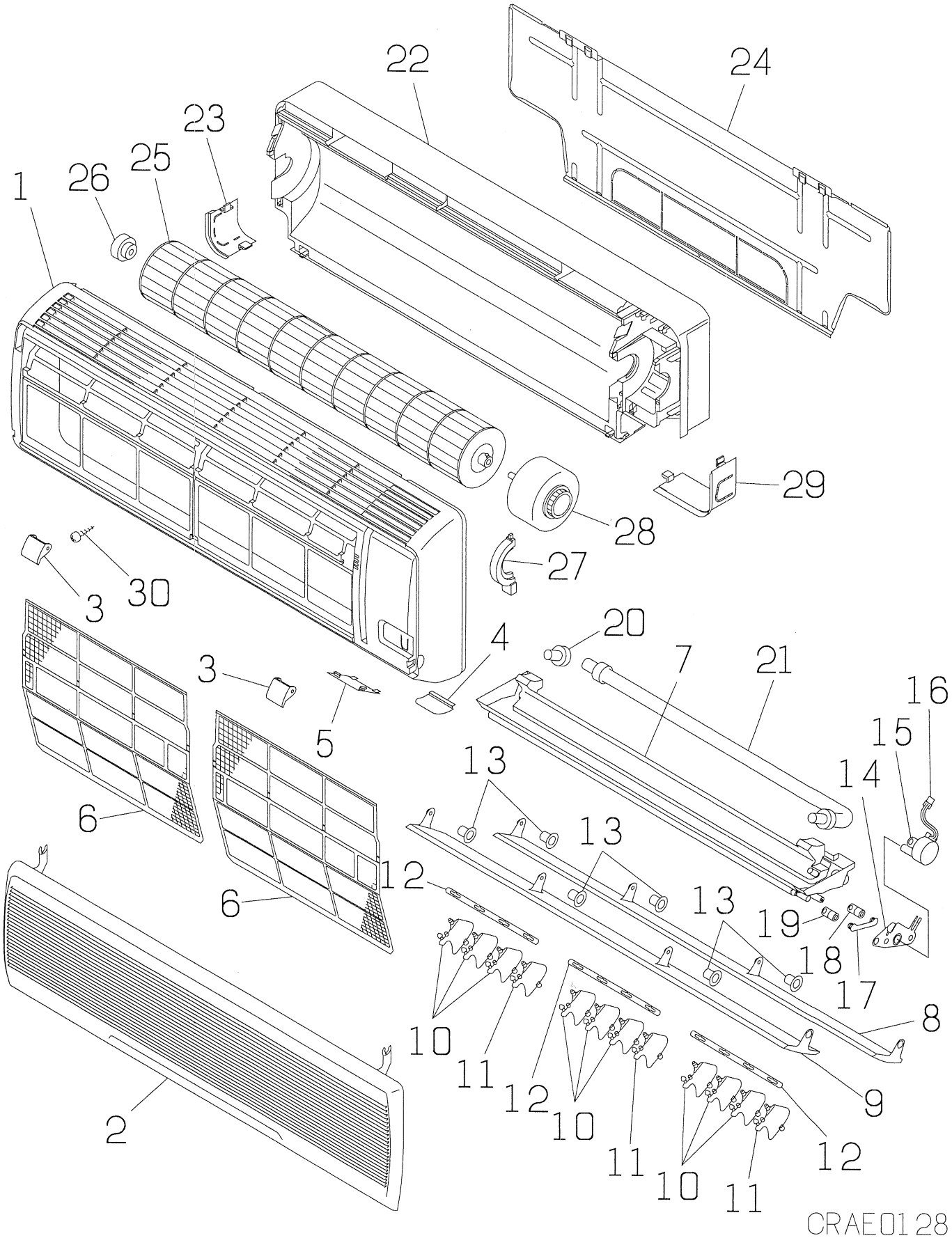
No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~3	RWC301A021	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2	RWC321A368	PIPE	0							
3	RWC321A369	PIPE	0							
4~5	RWC304A109	PIPING ASSY	1							
5	RWC315B092	CAPILLARY	1							
6	RCK116A002	BRACKET(VALVE)	1			0	1	1	2	
7	RCK381A501	VALVE,SERVICE(1/4")	1							
8	RCG381A703	VALVE,SERVICE(3/8")	1							RCG381A008A
9	RWC321A363	PIPING ASSY	0							
10	RWC321A370	PIPE,DISCHARGE	0							
11	AHT201A240N	COMPRESSOR ASSY	1			1	1	2	8	AHM201A240N
12	SSA552A491	CAPACITOR,RUNNING	1			1	1	2	4	SSA552A153
13	SSA552A825	CAPACITOR,RUNNING	1			1	1	2	4	
14	ASA533B149	PROTECTOR,MOTOR	1			1	1	2	3	
15	AHA941D003	SPRING(PROTECTOR)	10							
16	SSA561B669	BLOCK,TERMINAL	1							
17	RWC504A083	WIRING ASSY	1							
18	AHA932C002	GASKET,COVER	6							
19	SSA914C016	NUT,FLANGE	10							
20	RCG947K001	COVER,TERMINAL	3							AHA947K002
21	SSA941C241	CUSHION,RUBBER	1							
22	SSA914C013A	NUT,FLANGE	20							
23	RCG151C008B	INSULATION,COMP	1							
24	RSA011F393F (-1) RMC011F002N (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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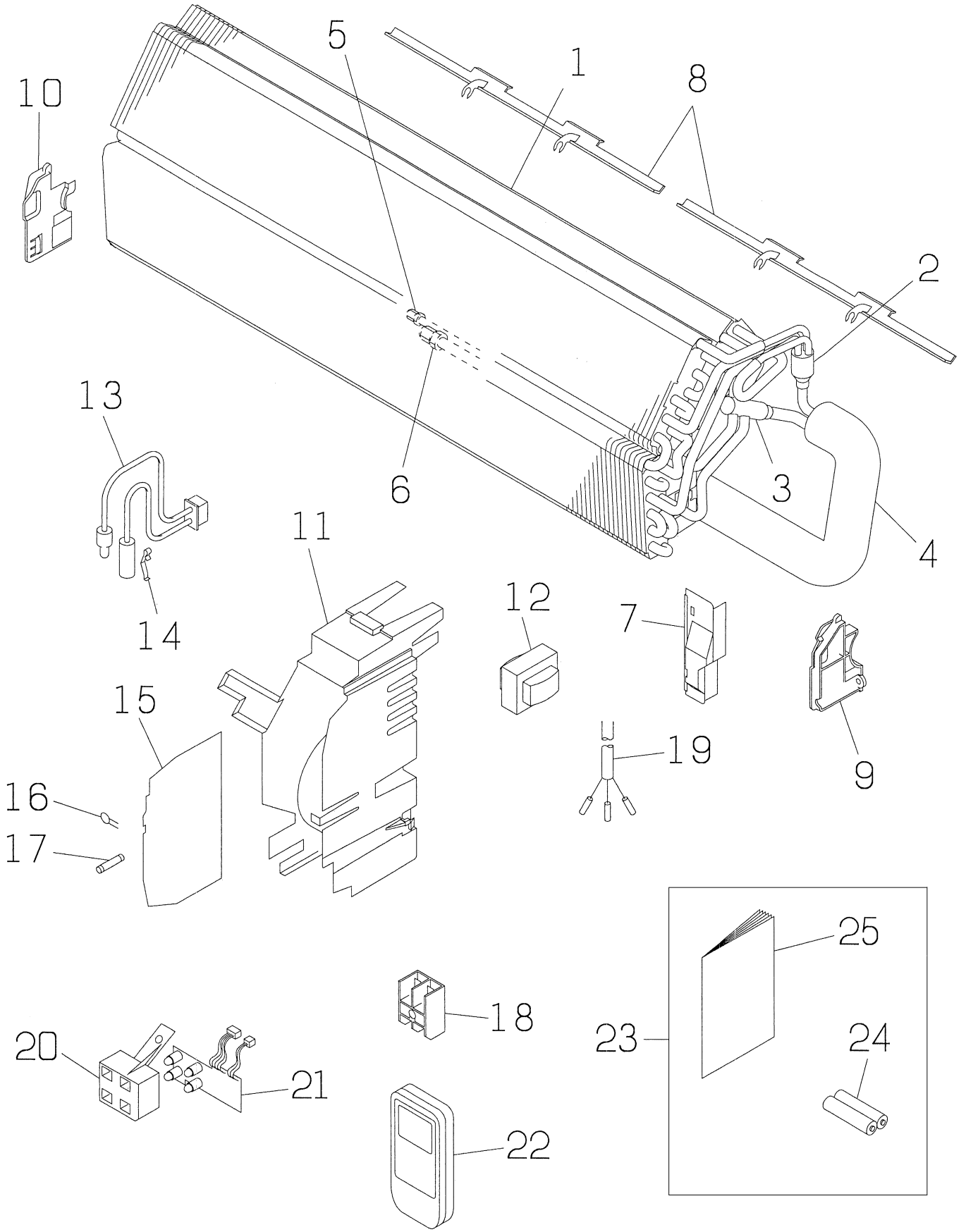
Part No. :RWA 002F037A,RWA 002F037C

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~6	RKR102A601A (-1) RKR102A601B (-4)	PANEL ASSY,FRONT	1			0	1	1	2	
1	RKR122A600	PANEL,FRONT	1			0	1	1	2	
2	RKR435A601 (-1) RKR435A601A (-4)	GRILLE ASSY,AIR IN	1			1	1	2	3	
3	RKR129A604	CAP	1			0	1	1	2	
4	RKR129A600	PLATE	1			0	1	1	2	
5	RKR133A600A	PLATE ASSY,DISPLAY	1							
6	RKR437A001	FILTER,AIR	2			1	2	4	8	
7~21	RWA435A003	GRILLE ASSY,AIR OUT	1			1	1	2	3	
7	RKR435A003C	GRILLE,AIR OUTLET	0			1	1	2	3	
8	RKR436A005A	FLAP(A)	5			1	1	2	3	
9	RKR436A006A	FLAP(B)	1			1	1	2	3	
10~12	RWA436A002	LOUVER ASSY	1			1	1	2	3	
10	RKR436A101G	LOUVER	0			1	1	2	3	
11	RKR436A101H	LOUVER	0			1	1	2	3	
12	RKR129A100C	PLATE,CONNECTING	0			0	1	1	2	
13	RKR935C001	COLLAR	1							
14~19	RKR144A001	LINK ASSY	1			0	1	1	2	
14	RKR129A009	BRACKET,MOTOR	1			0	1	1	2	
15	SSA512T017	MOTOR,STEPPING	1							
16	RKR504A003	HARNESS ASSY	1							
17	RKR144A002	LINK	5			0	1	1	2	
18	RKR144A003	CRANK(A)	1			0	1	1	2	
19	RKR144A004	CRANK(B)	5			0	1	1	2	
20	SSA326A038	PLUG	5							
21	SSA423A090	HOSE,DRAIN	1			1	1	2	3	SSA423A062
22~23	RWA111A001	BASE ASSY	1							
23	RKR132A004A	LID(L)	3							
24	RKR032A001	PLATE,INSTALLATION	1							
25	SSA431G028	IMPELLER	1			1	2	4	8	SSA431G039B
26	SSA923C114	BEARING,PLANE	1			1	1	2	4	SSA923C069
27	RKR129A012	BRACKET,MOTOR(FM)	1			0	1	1	2	
28	SSA511J217	MOTOR,AC	1			2	2	4	8	
29	RKR132A003B	LID(R)	1							
30	SSA913A007	SCREW,TAP	20							

HEAT EXCH. & CONTROL



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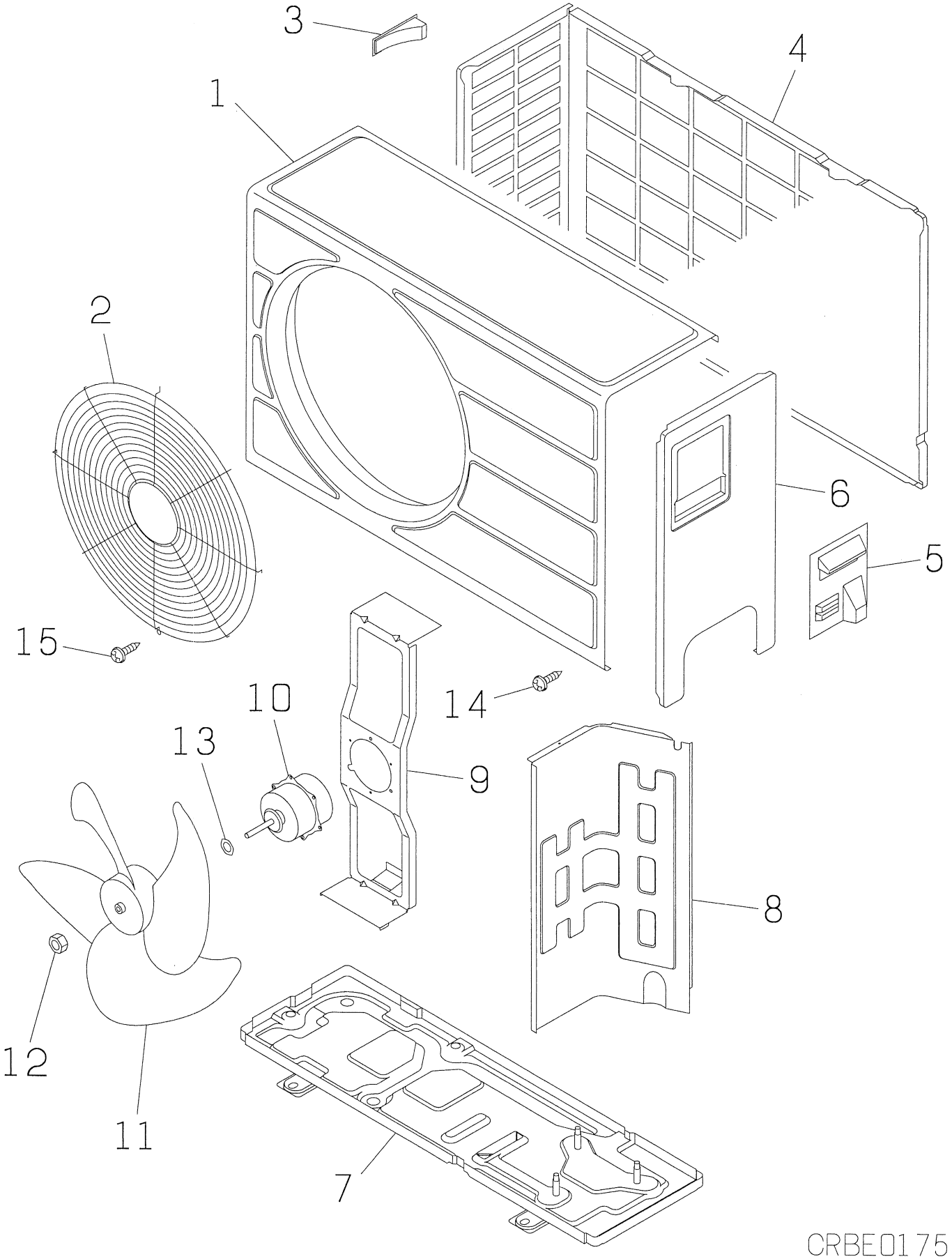
No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~6	RKR301A003F	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2	RKR315A003	DISTRIBUTOR ASSY	1							
3	RKR315D003	HEADER ASSY	1							
4~6	RKR321A001F	PIPE ASSY	1							
5	SSA323F082A	UNION(SLD)	1							
6	SSA323F082B	UNION(SLD)	1							
7	RKR129A015A	COVER,BEND	5			0	1	1	2	
8	RKR129A016	PLATE,BAFFLE	5			0	1	1	2	
9	RKR129A010	BRACKET,EX(R)	1			0	1	1	2	
10	RKR129A011	BRACKET,EX(L)	1			0	1	1	2	
11	RKR142A101	BOX,CONTROL	1							
12	SSA554A442	TRANSFORMER	1			1	1	2	3	
13	SSA551A163F	SENSOR ASSY	1			1	1	2	4	
14	RKJ941F001	SPRING,LEAF	20							
15~17	RKR505A360CD	PWB ASSY	1			2	2	4	8	
16	SSA555B003A	VARISTOR	1			1	1	1	2	
17	SSA564A072	FUSE(CURRENT)	3			1	1	2	4	
18	SSA561B669	BLOCK,TERMINAL	1							
19	RKR504A017	HARNESS ASSY	1							
20~21	RKR503A600A	DISPLAY ASSY	1			1	1	2	3	
20	RKR129A601	FRAME(DISPLAY)	1			0	1	1	2	
21	RKR505A601A	PWB ASSY(DISPLAY)	1			2	2	4	8	
22	RKS502A502A	CONTROL ASSY,REMOTE	1			2	3	5	10	
23	RWA008A058A	PARTS SET	0							
24	RKH549A500B	BATTERY ASSY	2							
25	RWA012A225	MANUAL,INSTRUCTION	1							
26	RSA011F394K (-1) RMA011F003S (-4)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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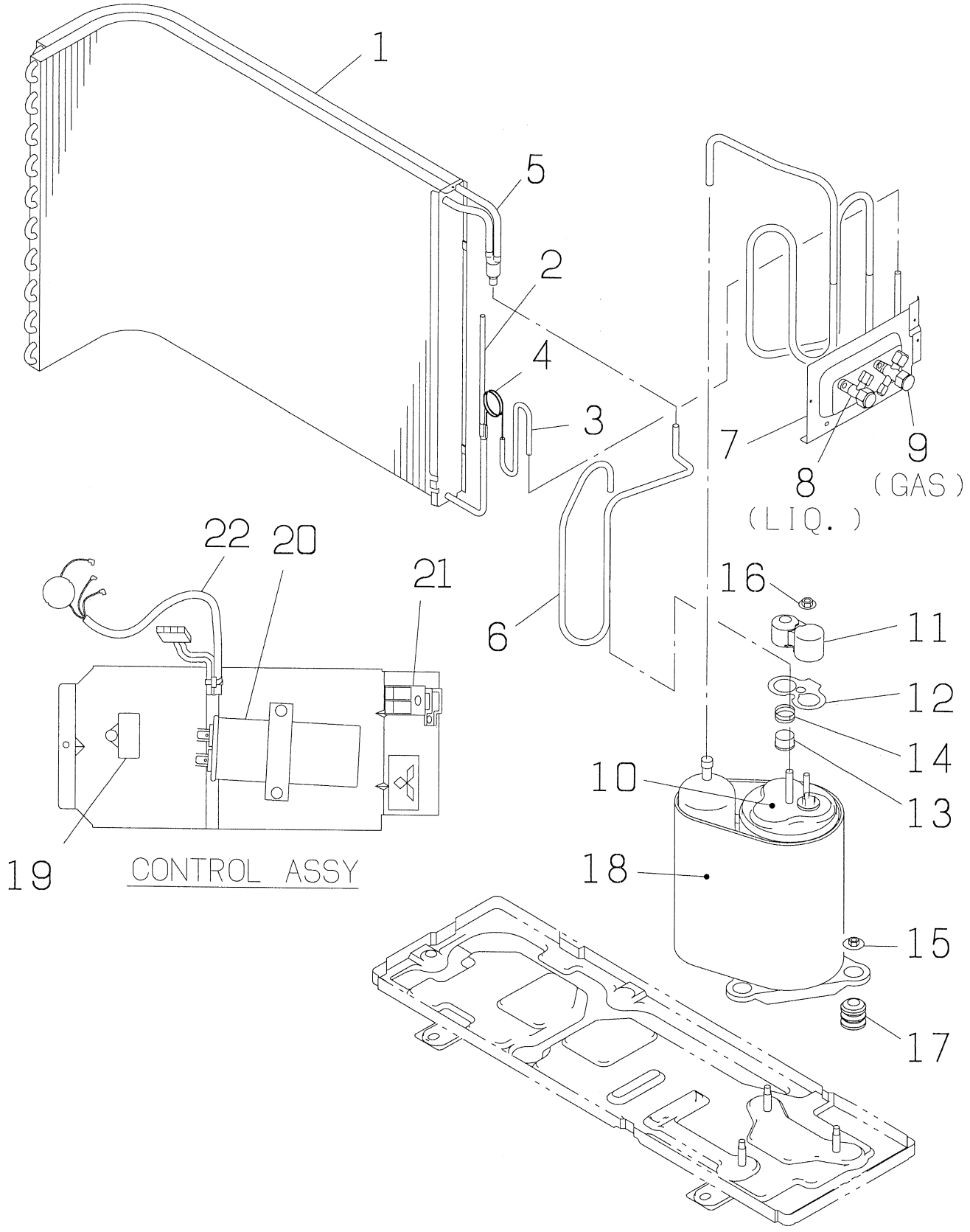
Part No. :RWC003F040A,RWC003F040C

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RCG122A001MM	PANEL ASSY,FRONT	1			0	1	1	2	RCG122A001K
2	RWC131A003	GUARD ASSY,FAN	1			0	1	1	2	
3	SSA944B008A	HANDLE	1							
4	RCG125A001ML	PANEL ASSY,REAR	1			0	1	1	2	RCG125A001MM
5	RCG132A001MC	LID,CONTROL PANEL	1							RCG132A001A
6	RCG123A002MA	PANEL,SIDE	1			0	1	1	2	RCG123A002
7	RCG111A001MA	BASE ASSY	1							
8	RCG141A007A	PLATE,BAFFLE	1							RCG141A007
9	RCG116A002MD	BRACKET,MOTOR	1			0	1	1	2	RCG116A002MC
10	SSA511A453AB	MOTOR,AC	1			2	2	4	8	
11	SSA431B068MA	PROPELLER	1			1	2	4	8	SSA431B068
12	SSA914B006D	NUT,TH	10							
13	W200H08	WASHER	20							
14	SSA913D011	SCREW,TAP	10							
15	SSA913D006A	SCREW,TAP & WASHER	20							

HEAT EXCH. & CONTROL



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No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~5	RCG301A013K	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2~4	RCG304A075A	PIPING ASSY	1							
3	RCG315B064	CAPILLARY,SUB	1							P210V26A000
4	RCG315B063A	CAPILLARY	1							P210V15A500
5	RCG321A195	PIPING ASSY	1							
6	RCG321A194	PIPE,DISCHARGE	0							
7	RCG116A003MG	BRACKET(VALVE)	1			0	1	1	2	
8	RCG381A701	VALVE,SERVICE(1/4")	1							RCG381A013
9	RCG381A704	VALVE,SERVICE(1/2")	1							RCG381A003A
10	AHT201A340NC	COMPRESSOR ASSY	1			1	1	2	8	AHM201A340NC
11	RCG947K001	COVER,TERMINAL	3							AHA947K002
12	AHA932C002	GASKET,COVER	6							
13	ASA533B092	PROTECTOR,MOTOR	1			1	1	2	3	
14	AHA941D003	SPRING(PROTECTOR)	10							
15	SSA914C013	NUT,FLANGE	10							
16	SSA914C016	NUT,FLANGE	10							
17	SSA941C239	CUSHION,RUBBER	1							
18	RCG151C021B	INSULATION ASSY,CO	1							
19	SSA552A491	CAPACITOR,RUNNING	1			1	1	2	4	SSA552A153
20	SSA552A826	CAPACITOR,RUNNING	1			1	1	2	4	
21	SSA561B669	BLOCK,TERMINAL	1							
22	RWC504A027C	WIRING ASSY	1							
23	RSA011F393K (-1) RMC011F002S (-4)	LABEL,MODEL NAME	0							

MODELS SRK50CA SRK56CA SRK56CA-4

FOREWORD

・Herein compiled list covers the following component part

Indoor Unit	Outdoor Unit
SRK50A	SRC50CA
SRK56A	SRC56CA
SRK56A-4	SRC56CA-4

・Such marketing parts as bolt, nut, insulation, adhesive etc. are not listed in this manual.
・Parts No. might be subject to change without advance notice. Correct this parts list when changes are informed with Parts Information.
・This parts list is to be correct when there are differences between this parts list and the previously published one according to parts number, quantity, etc.

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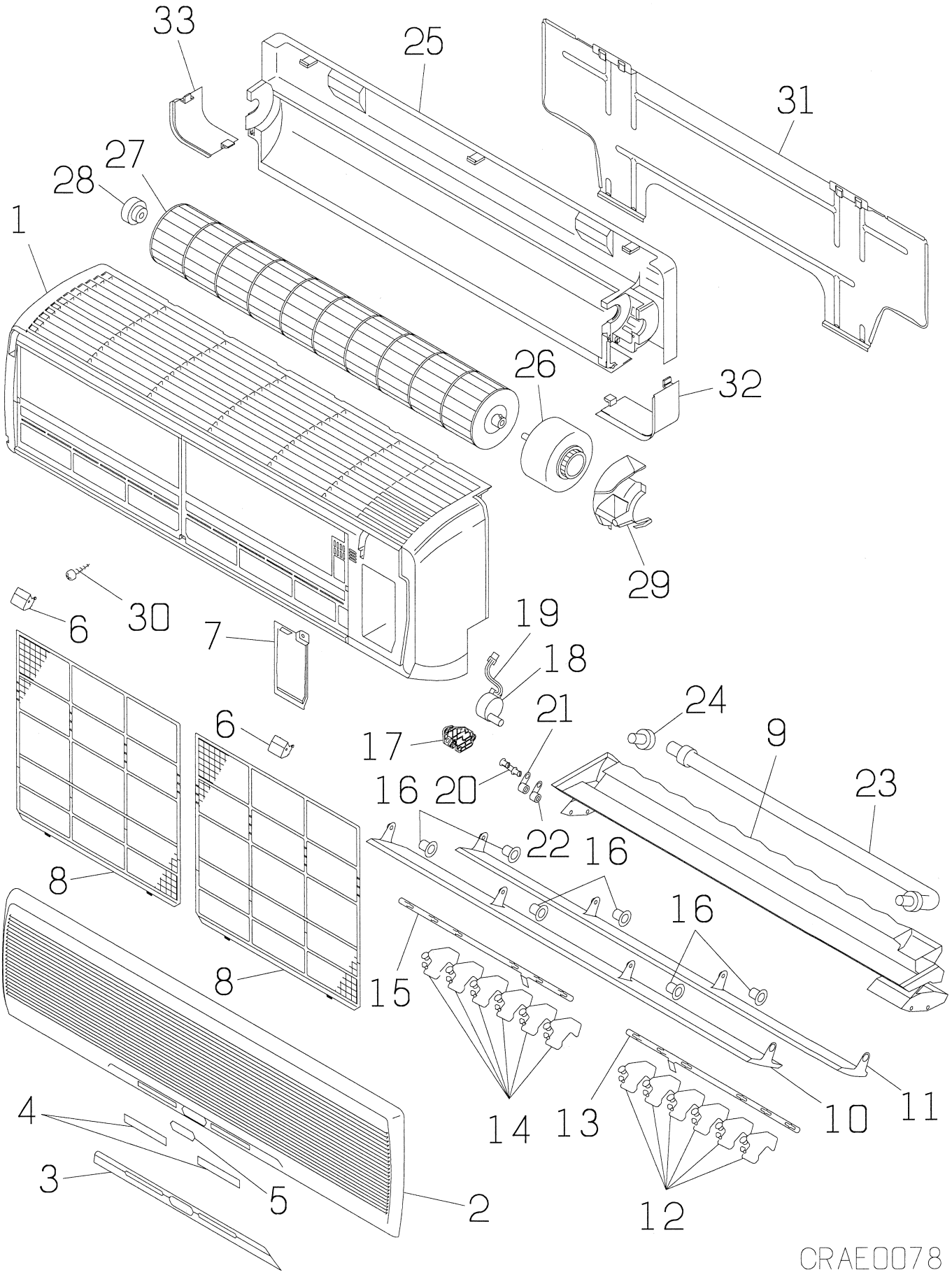
1. SRK50A, SRC50CA ----------	142
2. SRK56A, SRC56CA SRK56A-4, SRC56CA-4 ----------	150

Drawing No. of Final Assy

Model	No.	Model	No.
SRK50A	RWA002F024	SRC50CA	RWC003F024A
SRK56A	RWA002F024A	SRC56CA	RWC003F024C
SRK56A-4	RWA002F024J	SRC56CA-4	RWC003F024J

PANEL & FAN ASSY

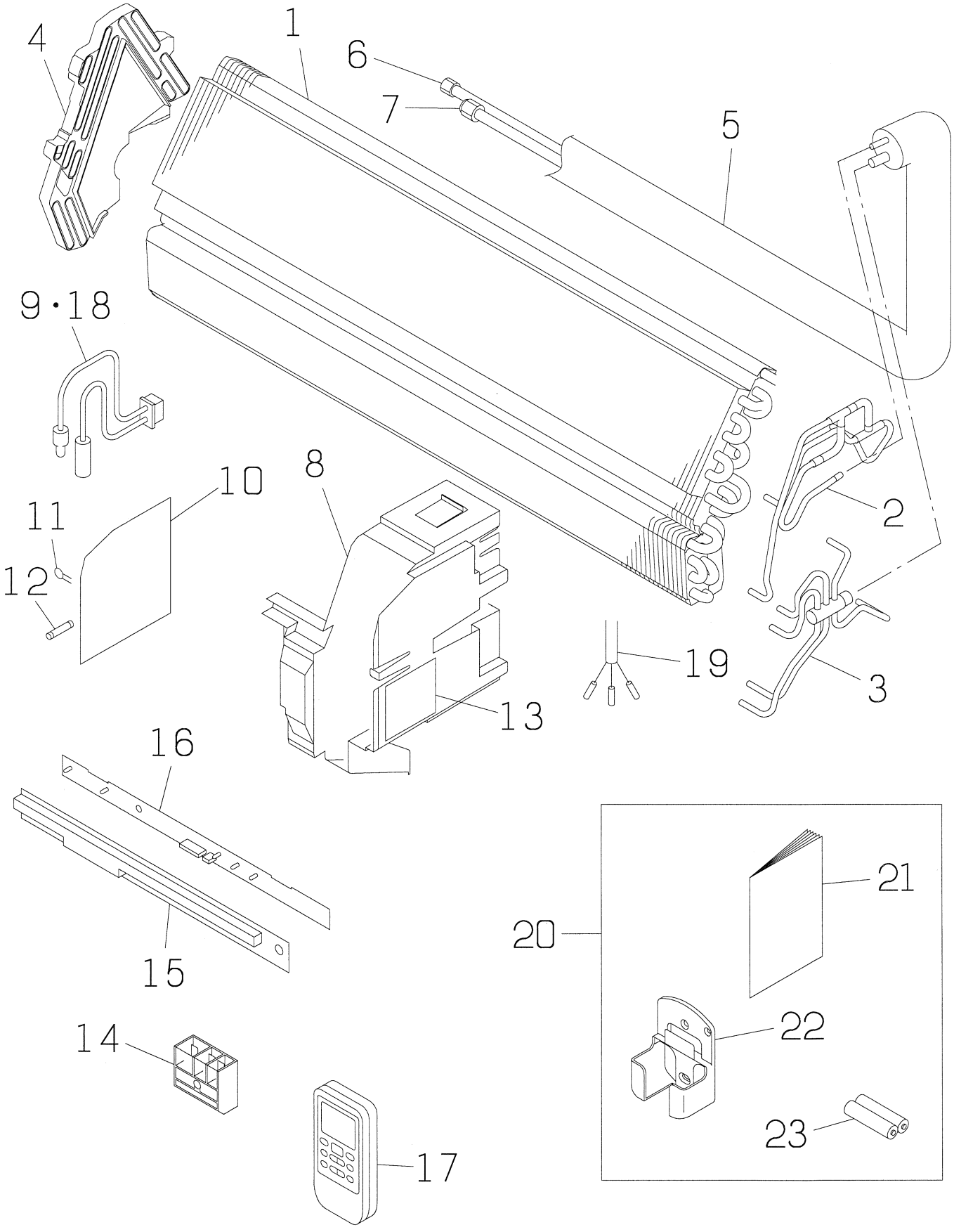


SRK50A

Part No. :RWA002F024

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~8	RKS102A950F	PANEL ASSY,FRONT	1			0	1	1	2	
1	RKS122A600J	PANEL,FRONT	1			0	1	1	2	
2~5	RKS435A950F	GRILLE ASSY,AIR IN	1			1	1	2	3	
2	RKS435A603F	GRILLE,AIR INLET	1			1	1	2	3	RKS435A950F
3	RKS133A600K	PLATE,DISPLAY	1							
4	RKS129A606	LENS	5			0	1	1	2	
5	RKS133A601A	PLATE,ORNAMENT	1							
6	RKS129A605	CAP	5			0	1	1	2	
7	RKS132A602B	LID(TERMINAL)	1							
8	RKS437A600A	FILTER,AIR	2			1	2	4	8	
9~24	RKS435A951D	GRILLE ASSY,AIR OU	1			1	1	2	3	
9	RKS435A601	GRILLE,AIR OUTLET	1			1	1	2	3	
10	RKS436A600	FLAP(A)	1			1	1	2	3	
11	RKS436A601	FLAP(B)	1			1	1	2	3	
12~13	RKT436A006	LOUVER ASSY(R)	1			1	1	2	3	
12	RKT436A004	LOUVER(R)	1			1	1	2	3	
13	RKT129A010	PLATE,CONNECTING	1			0	1	1	2	
14~15	RKT436A007	LOUVER ASSY(L)	1			1	1	2	3	
14	RKT436A005	LOUVER(L)	1			1	1	2	3	
15	RKT129A010A	PLATE,CONNECTING	1			0	1	1	2	
16	RKR935C001B	COLLAR	10							
17~22	RKS144A600B	LINK ASSY	1			0	1	1	2	
17	RKS129A602	BRACKET,MOTOR	1			0	1	1	2	
18	SSA512T017	MOTOR,STEPPING	1							
19	RKS504A100A	HARNESS ASSY	1							
20	RKS144A601	LINK	1			0	1	1	2	
21	RKS144A602	CRANK(A)	1			0	1	1	2	
22	RKS144A603	CRANK(B)	1			0	1	1	2	
23	RSA423A003	HOSE,DRAIN	1			1	1	2	3	SSA423A091
24	SSA326A038	PLUG	5							
25	RKS111A600F	BASE ASSY	1							
26	SSA512T031A	MOTOR,DC	1							
27	SSA431G032	IMPELLER	1			1	2	4	8	SSA431G039
28	SSA923C114	BEARING,PLANE	1			1	1	2	4	SSA923C069
29	RKS129A603	COVER(MOTOR)	2			0	1	1	2	
30	SSA913A007A	SCREW,TAP	10							
31	RKS032A600	PLATE,INSTALLATION	1							
32	RKS132A600	LID(R)	1							
33	RKS132A601	LID(L)	1							

HEAT EXCH. & CONTROL



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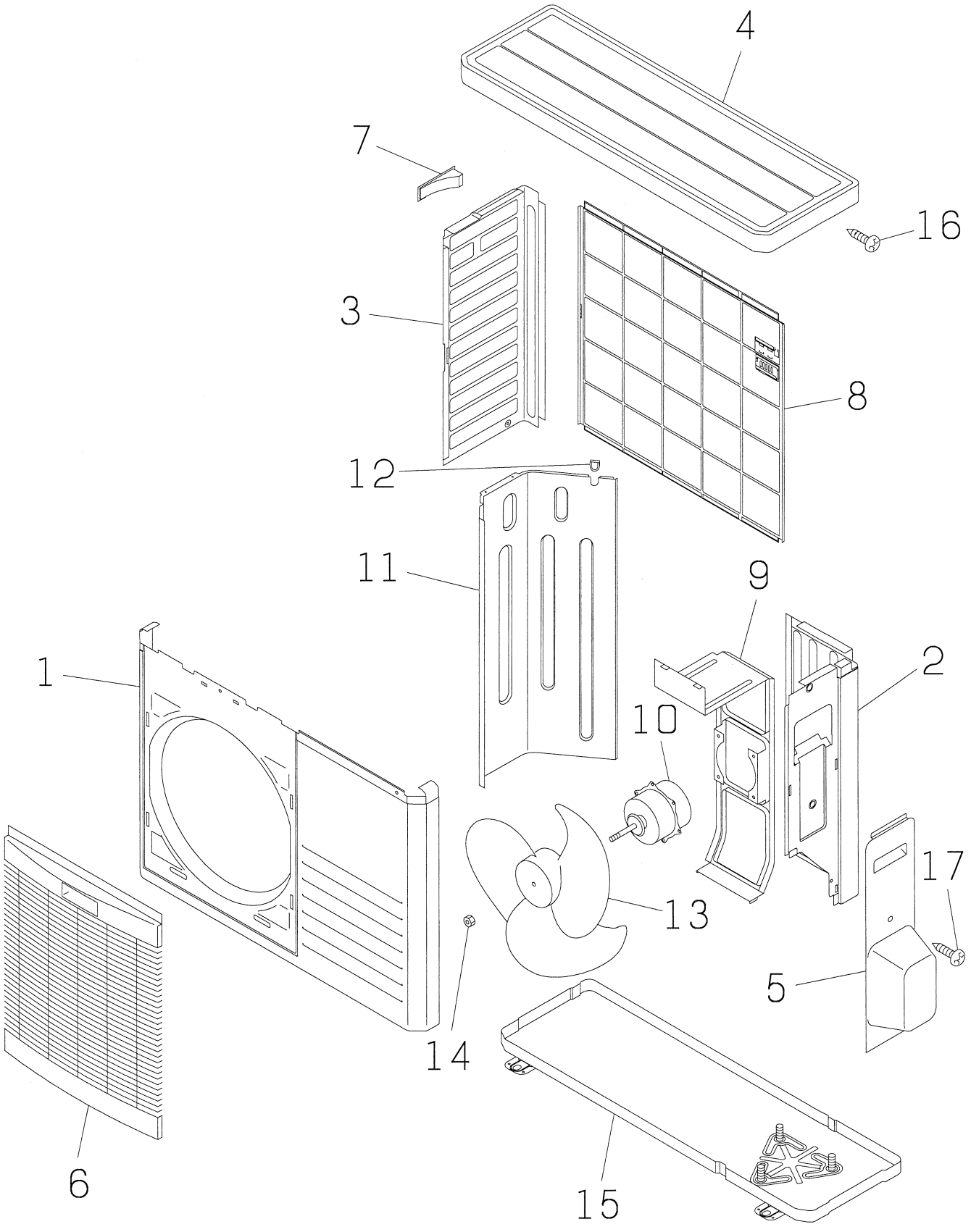
SRK50A

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~7	RKS301A800B	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2~4	RKS301A801B	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2	RKS321A811	PIPING ASSY	1							
3	RKS315D801A	HEADER ASSY	0							
4	RKS129A604	BRACKET(L)	2			0	1	1	2	
5~7	RKS321A650B	PIPE ASSY	1							
6	SSA323F082A	UNION(SLD)	1							
7	SSA323F082B	UNION(SLD)	1							
8	RKT142A001	BOX,CONTROL	1							
9	SSA551A163F	SENSOR ASSY	1			1	1	2	4	
10~12	RKS505A850	PWB ASSY	1			2	2	4	8	
11	SSA555B003A	VARISTOR	1			1	1	1	2	
12	SSA564A072	FUSE(CURRENT)	3			1	1	2	4	
13	RKS011G850	LABEL,WIRING	0							
14	SSA561B670	BLOCK,TERMINAL	1							
15~16	RKS503A950B	DISPLAY ASSY	1			1	1	2	3	
15	RKS129A901A	FRAME(DISPLAY)	1			0	1	1	2	
16	RKS505A951A	PWB ASSY(DISPLAY)	1			2	2	4	8	
17	RKS502A503D	CONTROL ASSY,REMOT	1			2	3	5	10	
18	RKJ941F001	SPRING,LEAF	20							
19	RKS504A019	HARNESS ASSY(POWER	1							
20	RWA008A055	PARTS,STANDARD	1							
21	RWA012A186	MANUAL,INSTRUCTION	1							
22	RKN032A002B	HOLDER(REMO-CON)	1							RYA032A005B
23	RSA549A005	BATTERY ASSY	2							RKH549A500B

PANEL & FAN ASSY



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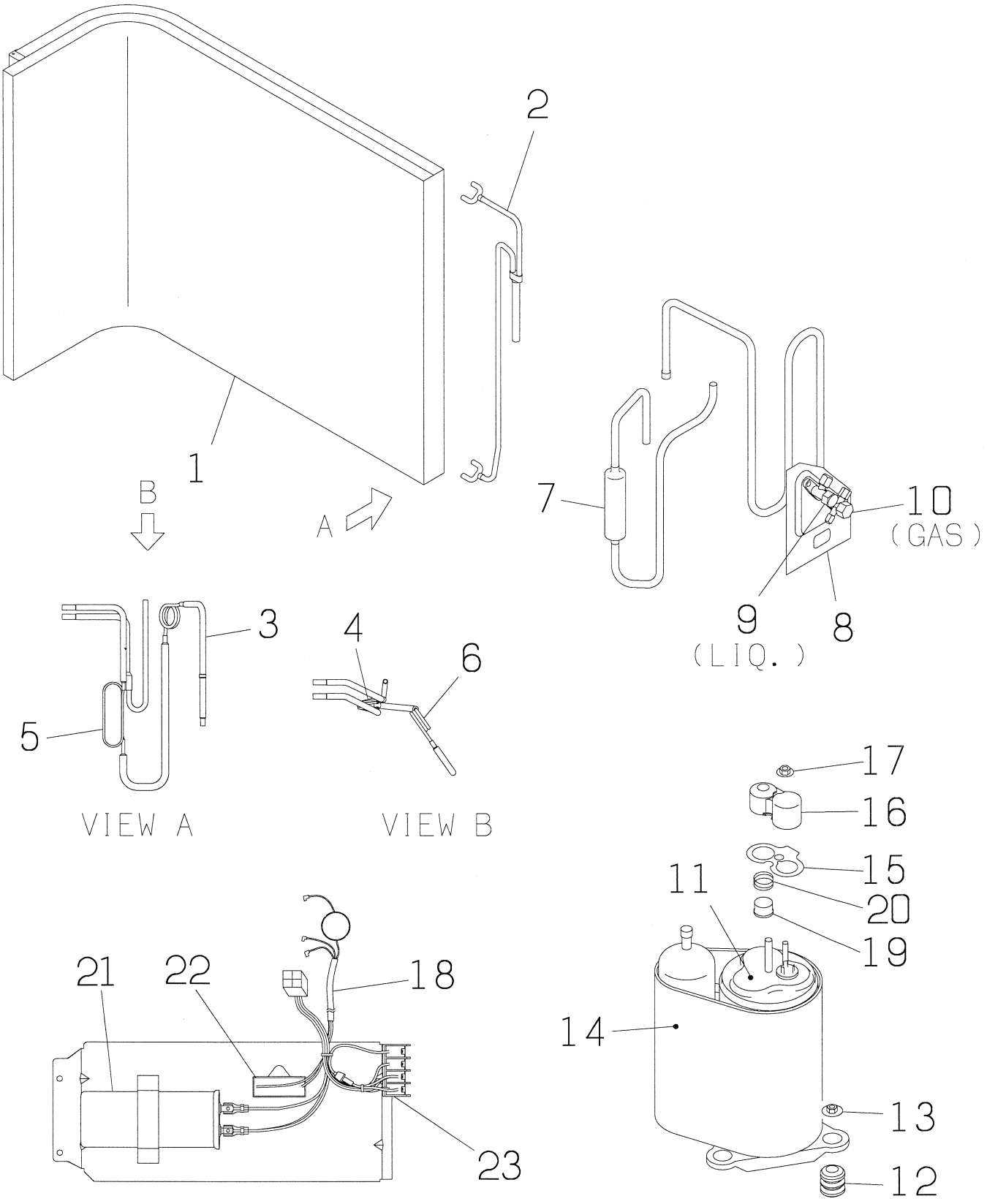
SRC50CA

Part No. :RWA003F024A

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RWC122A003	PANEL,FRONT	1			0	1	1	2	
2	RWC123A005	PANEL ASSY,SIDE(R)	1			0	1	1	2	
3	RWC123A002	PANEL,SIDE(L)	1			0	1	1	2	
4	RWC124A003	PANEL,TOP	1			0	1	1	2	
5	RWC132A005	PANEL,SERVICE	1							
6	RWC435A002	GRILLE,AIR OUTLET	1			1	1	2	3	
7	SSA944B036	HANDLE	2							
8	RWC131A004	GUARD,FIN	1			0	1	1	2	
9	RWC116A029	BRACKET,MOTOR	1			0	1	1	2	RWC116A041A
10	SSA511L024	MOTOR,AC	1			2	2	4	8	
11	RWC141A002	PLATE,BAFFLE	1							
12	SSA947B019	GROMMET	5							
13	SSA431B233	PROPELLER	1			1	2	4	8	
14	SSA914B007AD	NUT,TH	2							
15	RWC111A003	BASE ASSY	1							
16	SSA913D011	SCREW,TAP	10							
17	SSA913D011A	SCREW,TAP	10							

HEAT EXCH. & CONTROL



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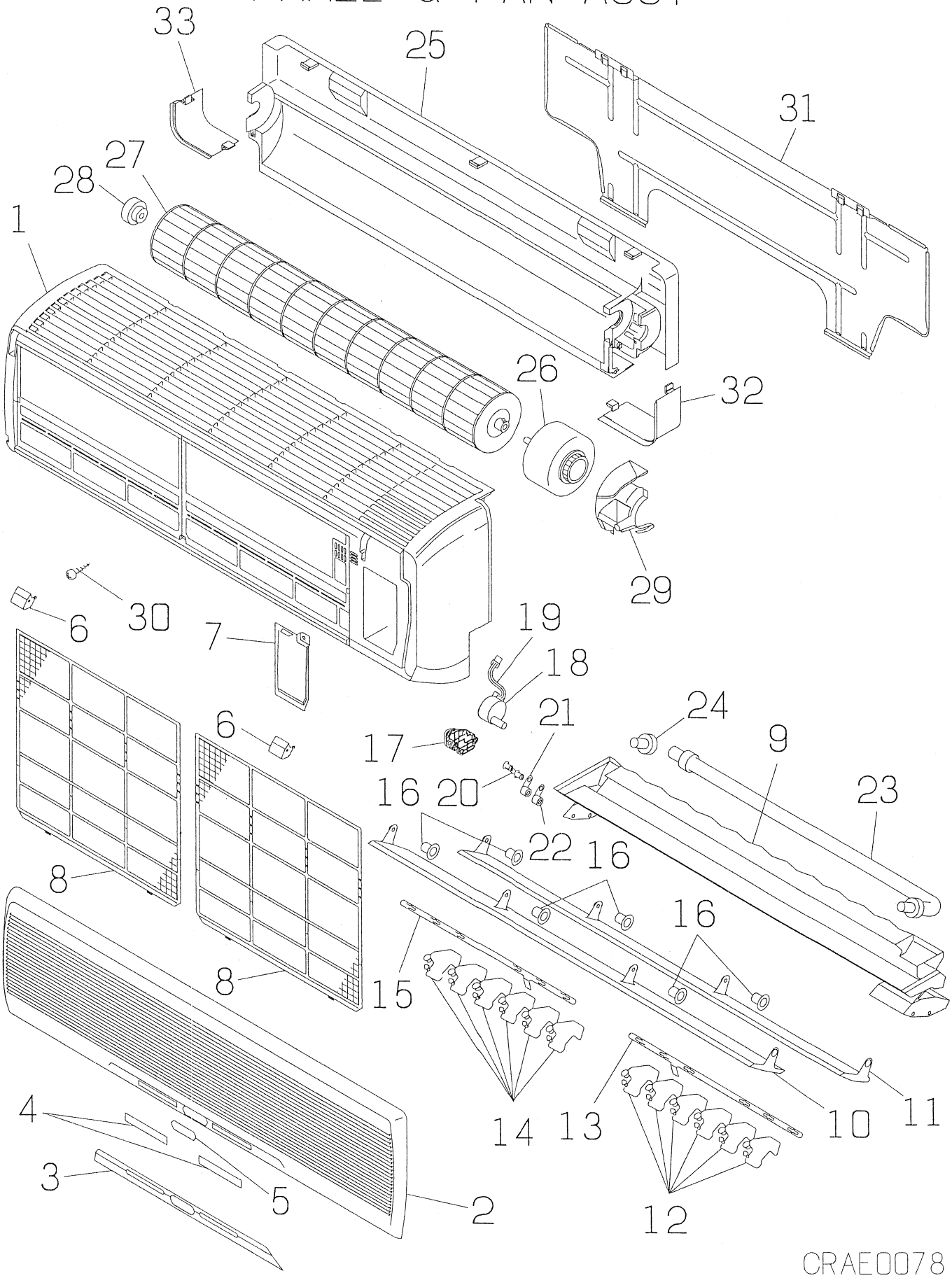
SRC50CA

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~6	RWC301A015C	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
1	RWC311A005	HEAT EXCH(AIR)	1			0	0	1	2	
2	RWC321A314A	PIPING ASSY	1							
3~6	RWC304A098C	PIPING ASSY(CAPI)	1							
4	RWC315B085B	CAPILLARY	0							
5	RWC315B085C	CAPILLARY	0							
6	RWC315B086	CAPILLARY	0							
7	SSA325A001BD	PIPE,SHELL	1							SSA325A001BH
8	RCK116A002	BRACKET(VALVE)	1			0	1	1	2	
9	RCK381A501	VALVE,SERVICE(1/4")	1							
10	RWC381A012	VALVE,SERVICE(1/2")	1							
11	AHT201A410NC	COMPRESSOR ASSY	1			1	1	2	8	
12	SSA941C114A	CUSHION,RUBBER	3							
13	SSA914C013	NUT,FLANGE	10							
14	RWC154D115	INSULATION ASSY,CO	1							
15	AHL932C002	GASKET,COVER	10							
16	AHL947K001	COVER,TERMINAL	1							
17	SSA914C016	NUT,FLANGE	10							
18	RWC504A077	WIRING ASSY	0							
19	ASA533B176	PROTECTOR,MOTOR	1			1	1	2	3	
20	AHL941D003	SPRING(PROTECTOR)	5							
21	SSA552A822	CAPACITOR,RUNNING	1			1	1	2	4	
22	SSA552A491A	CAPACITOR,RUNNING	1			1	1	2	4	
23	SSA561B670	BLOCK,TERMINAL	1							
24	RWC011F005B	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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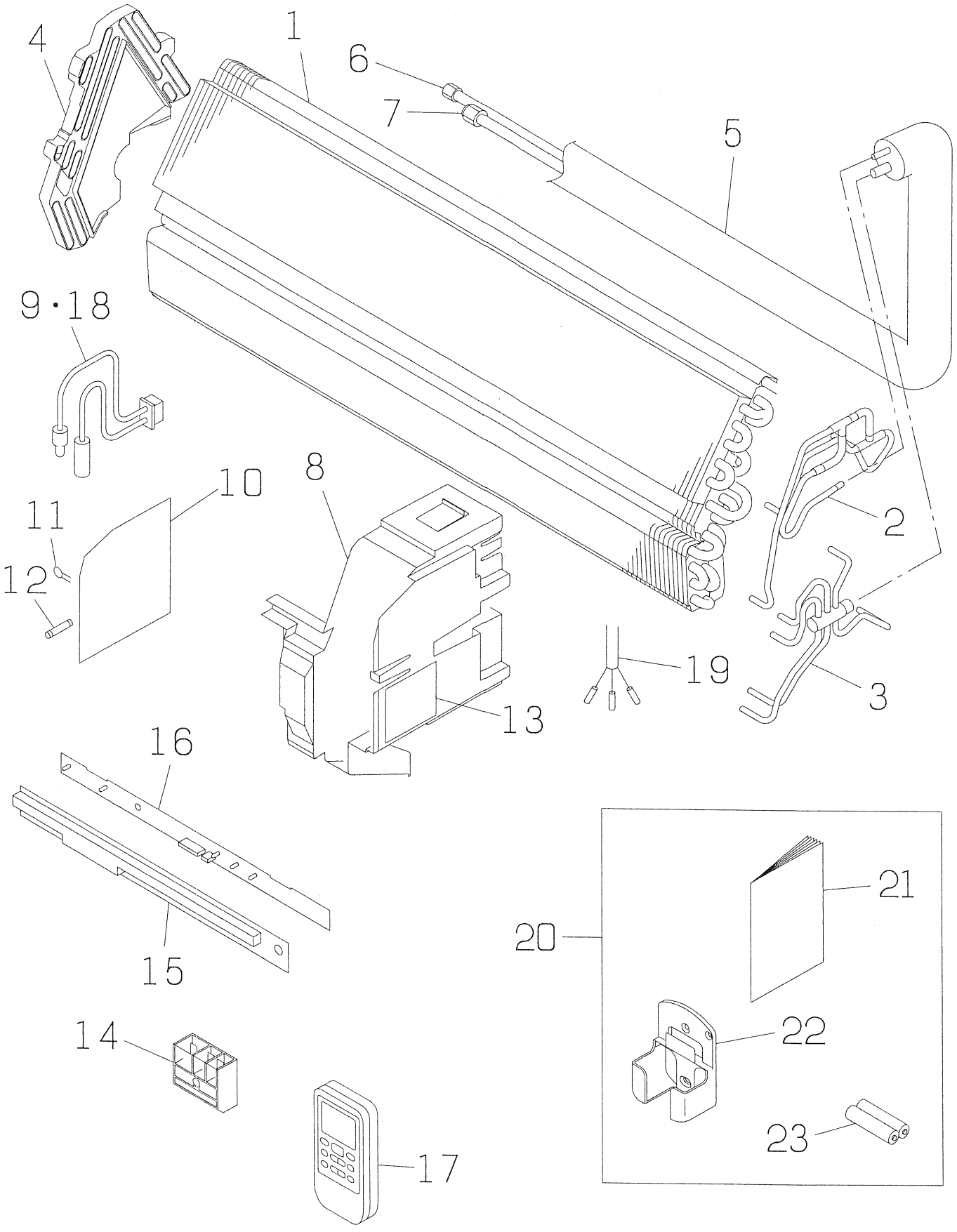
Part No. :RWA002F024A,RWA002F024J

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~8	RKS102A950F (56A) RKS102A950J (56-A)	PANEL ASSY,FRONT	1			0	1	1	2	
1	RKS122A600J	PANEL,FRONT	1			0	1	1	2	
2~5	RKS435A950F (56A) RKS435A950H (56-A)	GRILLE ASSY,AIR IN	1			1	1	2	3	
2	RKS435A603F (56A) RKS435A603H (56-A)	GRILLE,AIR INLET	1			1	1	2	3	RKS435A950F (56A) RKS435A950H (56-A)
3	RKS133A600K	PLATE,DISPLAY	1							
4	RKS129A606	LENS	5			0	1	1	2	
5	RKS133A601A	PLATE,ORNAMENT	1							
6	RKS129A605	CAP	5			0	1	1	2	
7	RKS132A602B	LID(TERMINAL)	1							
8	RKS437A600A	FILTER,AIR	2			1	2	4	8	
9~24	RKS435A951D	GRILLE ASSY,AIR OUT	1			1	1	2	3	
9	RKS435A601	GRILLE,AIR OUTLET	1			1	1	2	3	
10	RKS436A600	FLAP(A)	1			1	1	2	3	
11	RKS436A601	FLAP(B)	1			1	1	2	3	
12~13	RKT436A006	LOUVER ASSY(R)	1			1	1	2	3	
12	RKT436A004	LOUVER(R)	1			1	1	2	3	
13	RKT129A010	PLATE,CONNECTING	1			0	1	1	2	
14~15	RKT436A007	LOUVER ASSY(L)	1			1	1	2	3	
14	RKT436A005	LOUVER(L)	1			1	1	2	3	
15	RKT129A010A	PLATE,CONNECTING	1			0	1	1	2	
16	RKR935C001B	COLLAR	10							
17~22	RKS144A600B	LINK ASSY	1			0	1	1	2	
17	RKS129A602	BRACKET,MOTOR	1			0	1	1	2	
18	SSA512T017	MOTOR,STEPPING	1							
19	RKS504A100A	HARNESS ASSY	1							
20	RKS144A601	LINK	1			0	1	1	2	
21	RKS144A602	CRANK(A)	1			0	1	1	2	
22	RKS144A603	CRANK(B)	1			0	1	1	2	
23	RSA423A003	HOSE,DRAIN	1			1	1	2	3	SSA423A091
24	SSA326A038	PLUG	5							
25	RKS111A600F	BASE ASSY	1							
26	SSA512T031A	MOTOR,DC	1							
27	SSA431G032	IMPELLER	1			1	2	4	8	SSA431G039
28	SSA923C114	BEARING,PLANE	1			1	1	2	4	SSA923C069
29	RKS129A603	COVER(MOTOR)	2			0	1	1	2	
30	SSA913A007A	SCREW,TAP	10							
31	RKS032A600	PLATE,INSTALLATION	1							
32	RKS132A600	LID(R)	1							
33	RKS132A601	LID(L)	1							

HEAT EXCH. & CONTROL



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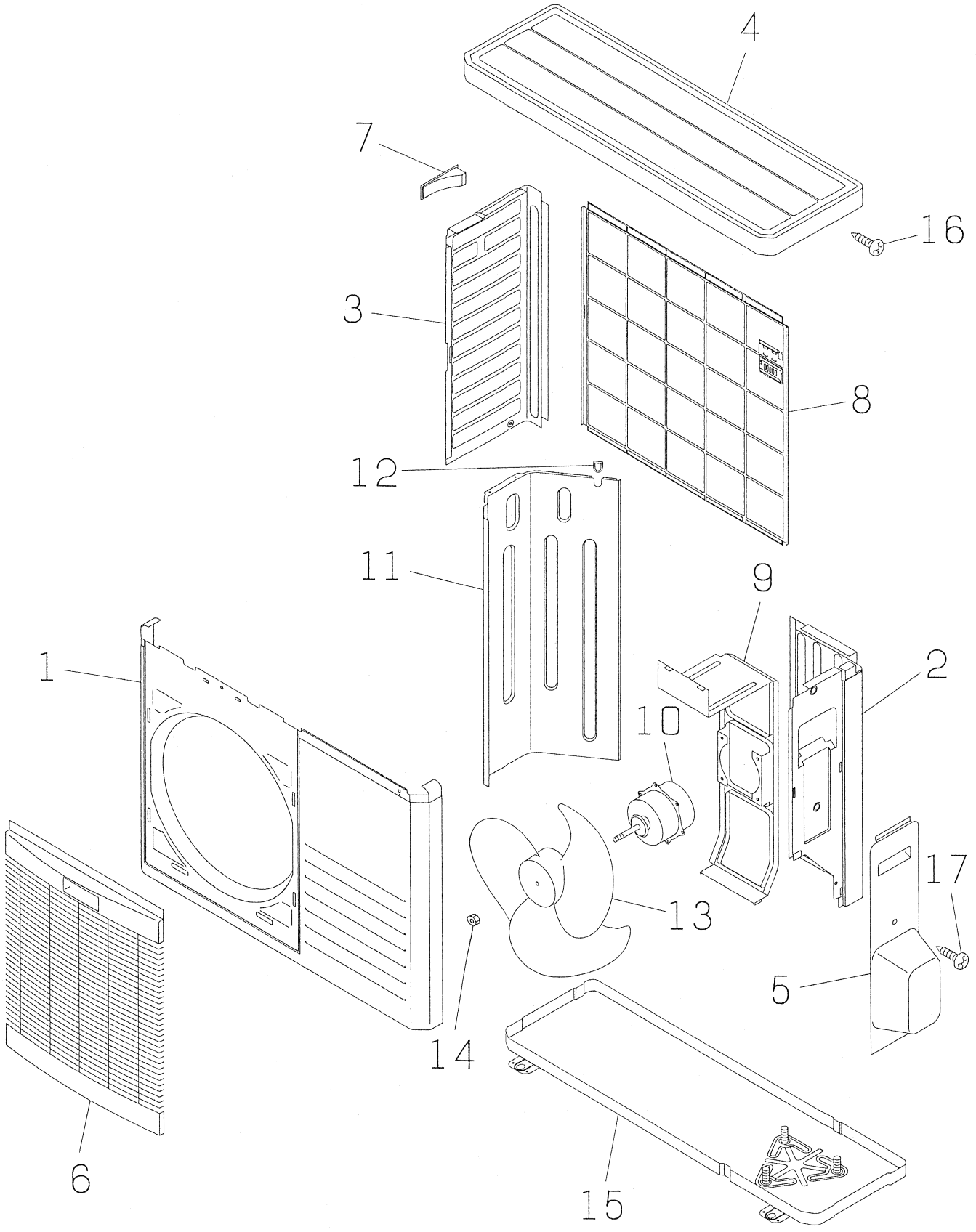
No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~7	RKS301A800B	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
1~4	RKS301A801B	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
2	RKS321A811	PIPING ASSY	1							
3	RKS315D801A	HEADER ASSY	0							
4	RKS129A604	BRACKET(L)	2			0	1	1	2	
5~7	RKS321A650B	PIPE ASSY	1							
6	SSA323F082A	UNION(SLD)	1							
7	SSA323F082B	UNION(SLD)	1							
8	RKT142A001	BOX,CONTROL	1							
9	SSA551A163F	SENSOR ASSY	1			1	1	2	4	
10~12	RKS505A850	PWB ASSY	1							
11	SSA555B003A	VARISTOR	1			1	1	1	2	
12	SSA564A072	FUSE(CURRENT)	3			1	1	2	4	
13	RKS011G850	LABEL,WIRING	0							
14	SSA561B670	BLOCK,TERMINAL	1							
15~16	RKS503A950B	DISPLAY ASSY	1			1	1	2	3	
15	RKS129A901A	FRAME(DISPLAY)	1			0	1	1	2	
16	RKS505A951A	PWB ASSY(DISPLAY)	1			2	2	4	8	
17	RKS502A503D	CONTROL ASSY,REMOTE	1			2	3	5	10	
18	RKJ941F001	SPRING,LEAF	20							
19	RKS504A019	HARNESS ASSY(POWER)	1							
20	RWA008A055	PARTS,STANDARD	1							
21	RWA012A186	MANUAL,INSTRUCTION	1							
22	RKN032A002B	HOLDER(REMO-CON)	1							RYA032A005B
23	RSA549A005	BATTERY ASSY	2							RKH549A500B
24	RSA011F375B (56A) RMA011F003T (56-A)	LABEL,MODEL NAME	0							

PANEL & FAN ASSY



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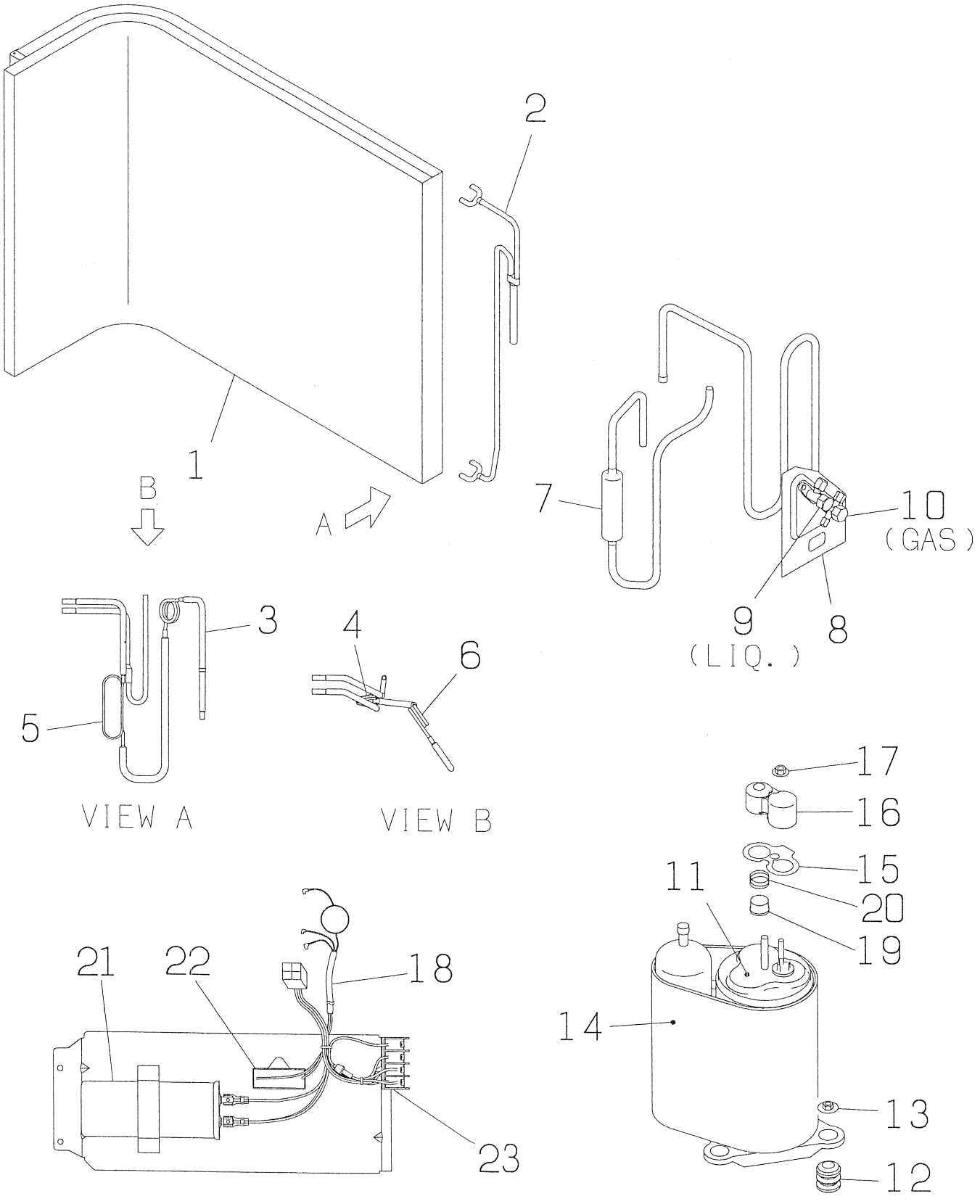
Part No. :RWC 003F024C,RWC 003F024J

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1	RWC122A003	PANEL,FRONT	1			0	1	1	2	
2	RWC123A005	PANEL ASSY,SIDE(R)	1			0	1	1	2	
3	RWC123A002	PANEL,SIDE(L)	1			0	1	1	2	
4	RWC124A003	PANEL,TOP	1			0	1	1	2	
5	RWC132A005	PANEL,SERVICE	1							
6	RWC435A002	GRILLE,AIR OUTLET	1			1	1	2	3	
7	SSA944B036	HANDLE	2							
8	RWC131A004	GUARD,FIN	1			0	1	1	2	
9	RWC116A029	BRACKET,MOTOR	1			0	1	1	2	RWC116A041A
10	SSA511L024	MOTOR,AC	1			2	2	4	8	
11	RWC141A002	PLATE,BAFFLE	1							
12	SSA947B019	GROMMET	5							
13	SSA431B233	PROPELLER	1			1	2	4	8	
14	SSA914B007AD	NUT,TH	2							
15	RWC111A003	BASE ASSY	1							
16	SSA913D011	SCREW,TAP	10							
17	SSA913D011A	SCREW,TAP	10							

HEAT EXCH. & CONTROL



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SRC56CA,-4

No.	Part No	Part Name	RE.Q	Recommendable Purchased Q'ty						Substitute Parts
				10	30	50	100	500	1000	
1~6	RWC301A015A	HEAT EXCH ASSY(AIR)	1			0	0	0	1	
1	RWC311A005	HEAT EXCH(AIR)	1			0	0	1	2	
2	RWC321A314A	PIPING ASSY	1							
3~6	RWC304A098A	PIPING ASSY(CAPI)	1							
4	RWC315B085	CAPILLARY	0							
5	RWC315B085A	CAPILLARY	0							
6	RWC315B086	CAPILLARY	0							
7	SSA325A001BD	PIPE,SHELL	1							SSA325A001BH
8	RCK116A002	BRACKET(VALVE)	1			0	1	1	2	
9	RCK381A501	VALVE,SERVICE(1/4")	1							
10	RWC381A012	VALVE,SERVICE(1/2")	1							
11	AHT201A420NC	COMPRESSOR ASSY	1			1	1	2	8	
12	SSA941C114A	CUSHION,RUBBER	3							
13	SSA914C013	NUT,FLANGE	10							
14	RWC154D115	INSULATION ASSY,CO	1							
15	AHL932C002	GASKET,COVER	10							
16	AHL947K001	COVER,TERMINAL	1							
17	SSA914C016	NUT,FLANGE	10							
18	RWC504A077A	WIRING ASSY	0							
19	ASA533B135	PROTECTOR,MOTOR	1			1	1	2	3	
20	AHL941D003	SPRING(PROTECTOR)	5							
21	SSA552A823	CAPACITOR,RUNNING	1			1	1	2	4	
22	SSA552A491A	CAPACITOR,RUNNING	1			1	1	2	4	
23	SSA561B670	BLOCK,TERMINAL	1							
24	RWC011F005C (56CA) RWC011F005N (56CA-4)	LABEL,MODEL NAME	0							

2004 ROOM AIR-CONDITIONING TECHNICAL HANDBOOK